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INSECTICIDE REPORT

for 1960

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THE BULLETIN of the North Carolina Department of Agriculture

L. Y. BALLENTINE, *Commissioner*

Number 164

May, 1961



North Carolina

INSECTICIDE REPORT

for

January 1 - December 31, 1960



THE BULLETIN

of the

North Carolina Department of Agriculture

Raleigh, N. C.

L. Y. BALLENTINE, *Commissioner*

JOHN L. REITZEL, *Assistant Commissioner*

E. W. CONSTABLE, *State Chemist*

Number 164

May, 1961

ABOUT OUR COVER PICTURE

"Go to the ant, thou sluggard, consider her ways and be wise" is one of the best known of the Proverbs. But those who go to the imported fire ant are drastically cured of sluggishness (at least temporarily); and they "consider its ways" only to beware. For this is the ant which attacks on slight or no provocation, and whose fiery sting can send grown men to the hospital or cause the death of small animals and wildlife.

The picture on our cover shows the high mounds built by the swarming ants on a pasture in a state where this vicious pest is widespread. Fortunately, infestations in North Carolina have thus far been small and isolated, lending themselves to complete eradication shortly after they were discovered. The ant abounds in some bordering states, however, and North Carolina has a vital stake in the U. S. Department of Agriculture's "crash" program for their complete eradication.

Experience with the boll weevil, Japanese Beetle and other pests or diseases has clearly demonstrated that such all-out programs of eradication are far less expensive in the long run than efforts toward control or containment. For example, the serious swine disease, vesicular exanthema, was contained within the borders of California for more than 20 years; but, as was inevitable in these days of rapid transportation, it jumped the borders of that state and quickly swept over the nation. Eradication then cost many millions, where possibly little more than a half million dollars could have wiped out the disease before it spread.

Where the imported fire ants have gained a strong foothold it will take time for even the "crash" program to eradicate them. Meantime North Carolina must be alert and ready to take immediate steps to eradicate any infestations brought in on vehicles or shipments of farm commodities.

Shown on the opposite page is an enlarged close-up of an imported fire ant. Adult workers vary from $\frac{1}{8}$ to $\frac{1}{4}$ inch in length, are reddish to blackish red in color, but will probably be most quickly and definitely identified by this description from a USDA leaflet: "Very aggressive, with vicious sting."

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of Economic Poisons

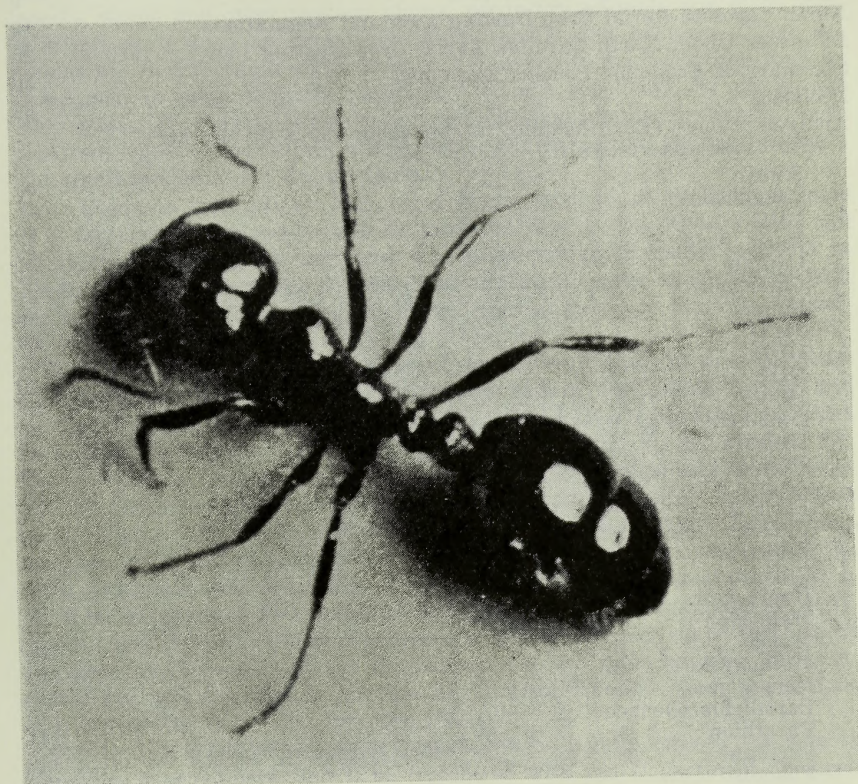


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Inspection and Analysis of Economic Poisons

Economic poisons or pesticides cover a large number of materials and mixtures intended for destroying, controlling or repelling pests such as insects, weeds and other noxious plants, predatory animals and birds, soil-infesting pests such as nematodes, algae, snails and bacteria. Other examples are disinfectants, antiseptics and fungicides for use other than on living man or other animals, defoliants, various repellents, fly paper and other adhesive products whose action goes beyond simple mechanics, moth proofers, wood preservatives other than common paints, mildew controls, and seed fumigants and disinfectants.

An adequate and reliable supply of these products is as indispensable as is fertilizer in the production of food and fiber crops. Weed killers and defoliants are important adjuncts. The preservation of many products in storage and the control of domestic and industrial pests which affect both the health and welfare of human beings and animals are likewise dependent on such materials.

While encouraging the development and distribution of reliable products to serve these needs, and with due regard for public health and welfare, it is the purpose of the economic poisons laws (the North Carolina Insecticide, Fungicide and Rodenticide Act of 1947, G. S., Article 4A, Chapter 106) to protect the public from adulterated, misbranded, worthless and dangerous products, and legitimate manufacturers from unscrupulous competition. Among other requirements, the law authorizes inspections, analyses of official samples taken from products offered for sale within the state and publication of results. With other pertinent information, there is given in this issue of *The Bulletin* a list of registrants, a summary of registrations and detailed results of analyses of official samples taken throughout the state by inspectors of the department for the calendar year 1960. Included also are the North Carolina Aerial Crop-Dusting Law, regulations and registrants under that law, for 1960.

Before any brand of economic poison can be legally offered for sale in the state, it is required that it be registered with the Department of Agriculture. Application forms, furnished by the department, must be submitted in triplicate with copy of all labeling and claims. Applications must be accompanied by an inspection fee of ten dollars per brand and grade, payable to the North Carolina Department of Agriculture. All registrations expire December 31 of each year and are subject to re-registration with annual payment of inspection fees. Requirements are given in fuller detail in the "Brief of North Carolina Insecticide Law" on pages 7 and 8. Copies of the law and related regulations are available on request.

A statewide inspection service is maintained for the collection of official samples of economic poisons from farms, other users, and dealers. Individual requests for inspections are followed up promptly.

Samples are sent to the department's laboratories for analysis and as soon as this work is completed, individual reports are forwarded to manu-

facturers, dealers and users. As a further means of reporting, an issue of The Bulletin covering a year's work, as exemplified herewith, is published annually.

The economic poisons law gives control officials certain discretionary authority in dealing with borderline cases. The earnest cooperation of a great majority of manufacturers and dealers has been a valuable asset in the administration of the law.

Cooperative work by staff members of the North Carolina Experiment Station and Extension Service has been mutually beneficial and most helpful. Credit also is due members of the laboratory section for the highly satisfactory manner in which the analytical work has been carried out: H. A. Miller, Assistant State Chemist; Henry W. Barnes, Jr., Jack Dean, Harold Jackson, Mrs. Muriel Weathers, George Winstead, II, Chemists; Mrs. Frances Liles, Secretary; S. E. Berkshire, George A. Brown, Jr., J. W. Davis, H. C. McPhail, James R. Stevens, Inspectors; William Morgan, Donald Smith, Laboratory Helpers.

Brief of North Carolina Insecticide Law

Commissioner of Agriculture, Raleigh, North Carolina.

Administrative
Officer

Information
Required to
Appear on
Package
Labels

1. The name and address of the guarantor.
2. The brand name or trademark.
3. The net weight or measure.
4. A guaranteed analysis statement showing:
 - a. The name and percentage of each active ingredient.
 - b. The total percentage of inert ingredients.
5. Instructions for use, adequate for the protection of public.
6. A warning or caution statement adequate to prevent injury.
7. For economic poisons highly toxic to man:
 - a. The skull and crossbones.
 - b. The word "Poison" in red, on distinctly contrasting background.
 - c. An antidote for the poison.
8. When arsenic is present—the percentages of the total and of the water-soluble arsenic separately and as elemental (metallic) arsenic.

Other General Requirements:

General
Requirements

1. Strength and quality must not fall below that professed or claimed.
2. No false or misleading statement, design or other representation is permissible.
3. Imitations are not permitted.
4. Labeling may not refer to registration.
5. Labeling shall be legible and understandable.
6. Claims or directions for use may not deviate in substance, or composition vary, from representations made on registering.
7. Economic poisons must be sold in the registrant's or manufacturer's original package. If repackaged for sale, it loses its original identity and qualifies as a new product. As such it is subject to registration and all other provisions of the law. Responsibility rests on the repackaging agent.

8. Economic poisons in powdered form of white or light color require distinct further coloring for safety.

Registration	Each brand and grade of economic poisons must be registered prior to sale (application forms are furnished by the department), subject to renewal annually, January 1st. Duplication of registration by secondary sellers is not required.
	Application must be accompanied by full information (see package labeling above), including specimen of labeling, all claims, and, if called for, certain additional data when necessary in qualifying the product.
Inspection Tax	An annual inspection tax of \$10.00 for each brand and each grade is required.
Method of Paying	Inspection tax must accompany application for registration, payable to the North Carolina Department of Agriculture.
Refusal or Cancellation of Registration	Registration is subject to refusal or cancellation for cause and upon hearing.
Stop-Sale Orders	Goods not measuring up to requirements are subject to Stop-Sale Orders.
Short Weight	Short weight, in addition to above, is subject to penalty.

Exempt From Penalties of Law Are:

Exemptions	<ol style="list-style-type: none"> 1. Carriers engaged in legal transporting. 2. Public official while performing official duties. 3. Manufacturers and shippers of products properly identified for experimental use only. 4. Persons shown to be proceeding in good faith on guarantees and representations given by others. The original guarantor then is liable.
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NOTE: Copies of the economic poisons law may be obtained upon request to the Inspection Division, North Carolina Department of Agriculture, Raleigh, North Carolina.

Economic Poisons Registrants, 1960

ABCO, INC.
705 Fifth Avenue
McKeesport, Pennsylvania

ACCESSORY SALES, INC.
P. O. Box 4221
Ft. Lauderdale, Florida

ACELINE PRODUCTS CORPORATION
P. O. Box 236
Rochester 1, New York

ACME FERTILIZER COMPANY
P. O. Box 98
Acme, North Carolina

ACME QUALITY PAINTS, INC.
8250 St. Aubin Avenue
Detroit 11, Michigan

AERO-MASTER, INC.
325 W. Pacific Avenue
St. Louis 19, Missouri

AGRICULTURAL SPECIALTIES
12200 Denton Drive
Dallas 34, Texas

AIRKEM, INC.
241 East 44th Street
New York 17, New York

AIROSOL COMPANY, INC.
525 N. 11th Street
Neodesha, Kansas

ALCATRAZ COMPANY, INC., THE
1900 Ellen Road
Richmond 30, Virginia

ALFORD HOME PRODUCTS
Box 595
Middlesex, North Carolina

ALLEN-CROWL COMPANY
1559 Allentown Road
Lima, Ohio

ALLIED CHEMICAL & DYE CORPORATION
Plastics & Coal Chemical Division
40 Rector Street
New York 6, New York

ALLIED CHEMICAL & DYE CORPORATION
General Chemical Division
40 Rector Street
New York 6, New York

ALLIED DRUG PRODUCTS COMPANY
P. O. Box 871
Chattanooga 1, Tennessee

ALLIED PRODUCERS & SUPPLY COMPANY
P. O. Box 3421
Charlotte 3, North Carolina

AMCHEM PRODUCTS, INC.
Ambler, Pennsylvania

AMERICAN CYANAMID COMPANY
P. O. Box 383
Princeton, New Jersey

AMERICAN LACE PAPER COMPANY
4425 N. Port Washington Road
Milwaukee 12, Wisconsin

AMERICAN SCIENTIFIC LABORATORIES, INC.
P. O. Box 1288
Madison 1, Wisconsin

AMERICAN STERILIZER COMPANY
2424 W. 23rd Street
Erie, Pennsylvania

A-PENN OIL COMPANY
P. O. Box 191
Butler, Pennsylvania

APEX CHEMICAL COMPANY
Box 146
Apex, North Carolina

ASPDEN ASSOCIATES, INC.
P. O. Box 1737
Greensboro, North Carolina

ATHENS INSECTICIDE COMPANY
N. Jackson Street
Athens, Tennessee

ATLA CHEMICAL COMPANY, INC.
Box 1761
Greensboro, North Carolina

ATLANTIC & PACIFIC TEA COMPANY,
THE GREAT
2024 Thrift Road
Charlotte, North Carolina

ATLAS AGRICULTURAL CHEMICALS, INC.
P. O. Box 169
Waynesboro, Georgia

AVRIL, INCORPORATED
Third & Greenwich Streets
Reading, Pennsylvania

BABBITT, B. T., INC.
20 Broadway
Albany 1, New York

BAIRD & McGUIRE, INC.
South Street
Holbrook, Massachusetts

BARCO MFG. COMPANY, INC.
340 Main Street
Worcester 8, Massachusetts

BARKER, MOORE & MEIN COMPANY
541 N. Orianna Street
Philadelphia 23, Pennsylvania

BAUER & BLACK
Division of the Kendall Company
309 W. Jackson Blvd.
Chicago 6, Illinois

BAXLEY'S FEED & SEED
117 E. Richland Street
Kershaw, South Carolina

BEN VENUE LABORATORIES, INC.
270 Northfield Road
Bedford, Ohio

BERK, F. W. & COMPANY, INC.
Park Place, E.
Woodridge, New Jersey

BERLOU MANUFACTURING COMPANY
421 Monroe Street
Marion, Ohio

- BEST EXTERMINATING SERVICE, INC.**
317 W. Pettigrew Street
Durham, North Carolina
- BIO-LAB, INC.**
627 E. College Avenue
Decatur, Georgia
- BIRD & SON, INC.**
Washington Street
East Walpole, Mass.
- BISSELL, INC.**
919-18th St., N. W.
Washington 6, D. C.
- B & L WHOLESALE COMPANY**
Box 1095
Anderson, South Carolina
- BLACK LEAF PRODUCTS COMPANY**
6147 N. Broadway
Chicago 40, Illinois
- BLACK MAGIC COMPANY**
P. O. Box 466
Valdosta, Georgia
- BLACK PANTHER COMPANY, INC.**
Box 690
Sanford, North Carolina
- BLUE BALL CHEMICAL COMPANY**
2506 Kuhl Avenue
Orlando, Florida
- BLUE MAGIC COMPANY**
Ledge & Spruce Streets
Wilson, North Carolina
- BOHLENDER PLANT CHEMICALS, INC.**
Tipp City, Ohio
- BONIDE CHEMICAL COMPANY**
382 N. Genesee Street
Utica 4, New York
- BOYER CHEMICAL COMPANY**
2232 S. Wabash Avenue
Chicago 16, Illinois
- BOYLE-MIDWAY INC.**
22 East 40th Street
New York 16, New York
- BUCKEYE CHEMICAL & SPECIALTY**
29 East 21 Street
New York 10, New York
- BURPEE, W. ATLEE COMPANY**
18th Street & Hunting Park Avenue
Philadelphia 32, Pa.
- CALIFORNIA CHEMICAL COMPANY—
ORTHO DIVISION**
- CALIFORNIA SPRAY CHEMICAL CORP.**
Lucas & Ortho Way
Richmond 4, California
- CAPE FEAR CHEMICALS, INC.**
Box 567
Elizabethtown, North Carolina
- CAPITOL CHEMICAL COMPANY**
3255 Prospect Avenue, N. W.
Washington 7, D. C.
- CARAJON CHEMICAL COMPANY, INC.**
Box 167
Fremont, Michigan
- CARBOLA CHEMICAL COMPANY, INC.**
Natural Bridge, New York
- CARBOLINEUM WOOD PRESERVING
COMPANY**
6683-N. 40th Street
Milwaukee, Wisconsin
- CARDINAL PRODUCTS, INC.**
P. O. Box 1611
Durham, North Carolina
- CAROLINA CHEMICALS, INC.**
P. O. Box 128
West Columbia, South Carolina
- CAROLINA FEED STORE**
279 E. Main Street
Gastonia, North Carolina
- CAROLINA ORGANICS COMPANY**
P. O. Box 65
Longwood, North Carolina
- CARROLL, CHEMICAL COMPANY, THE**
2301 Hollins Street
Baltimore 23, Maryland
- CARTER INSECTICIDE & CHEMICAL
COMPANY, INC.**
P. O. Box 209
Wallace, North Carolina
- C-B DRUG COMPANY**
2219 Freedom Drive
Charlotte 8, North Carolina
- CEDAR HILL FORMULAE COMPANY
THE**
234 Steele Street
P. O. Box 1129
New Britain, Conn.
- CENTER CHEMICAL COMPANY**
P. O. Box 1888
Atlanta, Georgia
- CENTRAL CHEMICAL CORPORATION**
P. O. Box 310
Hagerstown, Maryland
- CHAMBERS-GODFREY MFG. COMPANY**
302-04 Broadway
Martin, Tennessee
- CHAPMAN CHEMICAL COMPANY**
60 N. 3rd Street
Memphis, Tennessee
- CHAPMAN, M. A. & SON**
P. O. Box 691
Canton, North Carolina
- CHASE PRODUCTS COMPANY**
20th & Gardner Road
Broadview, Illinois
- CHEMAGRO CORPORATION**
P. O. Box 4913
Kansas City 20, Missouri
- CHEMICAL CORPORATION OF AMERICA**
P. O. Box 3577
Monroe Street Station
Tallahassee, Florida
- CHEMISTRY HALL LABORATORIES**
P. O. Box 255
Bradenton, Florida
- CHEMLEY PRODUCTS COMPANY**
5744 N. Western Avenue
Chicago 45, Illinois

CHEMWAY CORPORATION
Fairfield Road
Mountain View, New Jersey

CHESTER CHEMICAL CORPORATION
2732 6th Avenue, South
St. Petersburg, Florida

CHIPMAN CHEMICAL COMPANY, INC.
Bound Brook, New Jersey

CLARKE & PROCTOR TURPENTINE
COMPANY, INC.
113-349 Worth Street
Fayetteville, North Carolina

CLEAN HOME PRODUCTS, INC.
2805 Locust Street
St. Louis 3, Missouri

CLEARY CORPORATION, W. A.
P. O. Box 749
New Brunswick, New Jersey

CLINTON NURSERIES
Boston Post Road
Clinton, Conn.

COAHOMA CHEMICAL COMPANY, INC.
Box 728
Clarksdale, Miss.

COASTAL CHEMICAL COMPANY
P. O. Box 978
Savannah, Georgia

COASTAL CHEMICAL CORPORATION
2113 Dickinson Avenue
Greenville, North Carolina

COLGATE-PALMOLIVE COMPANY
300 Park Avenue
New York 22, New York

COLONIAL PRODUCTS, INC.
6207 Georgia Avenue
West Palm Beach, Florida

COLONIAL STORES, INC.
215 Lawyers Bldg.
Greenville, South Carolina

COMET MANUFACTURING CORPORATION
688 Spring Street, N. W.
Atlanta 8, Georgia

COMMON SENSE MFG. CO., INC.
1392 Niagara Street
Buffalo 13, New York

COOK CHEMICAL COMPANY
2500 Summit Street
Kansas City, Missouri

COOPER, WILLIAM & NEPHEWS, INC.
1909 N. Clifton Avenue
Chicago 14, Illinois

CORN NOX PRODUCTS COMPANY
54 Holland Street
Asheville, North Carolina

COUGHLAN, G. N., CO.
29 Spring Street
West Orange, New Jersey

COWLEY, S. L. & SONS MFG. CO.
708 W. McAlester Street
Hugo, Oklahoma

CRE-O-TOX CHEMICAL PRODUCTS CO.
2670 Broad Avenue
Memphis, Tennessee

CRISP, S. A. CANINE COMPANY
Blacksburg, South Carolina

CUTTER LABORATORIES, INC.
Fourth & Park Streets
Berkeley 10, California

DALY-HERRING COMPANY
Adkin & University Streets
Kinston, North Carolina

DARWORTH INCORPORATED
Cuprinol Division
P. O. Box 308
Simsbury, Conn.

DAUBERT CHEMICAL COMPANY
4700 S. Central Avenue
Chicago 38, Illinois

DAVIES-YOUNG SOAP CO., THE
705 Albany Street
Dayton 1, Ohio

d-CON COMPANY, INC., THE
1450 Broadway
New York 18, New York

DEAM CORPORATION, THE
41 Beale Avenue
Memphis 3, Tennessee

DE PREE COMPANY, THE
130 Central Avenue
Holland, Michigan

DESOTO CHEMICAL COMPANY, INC.
P. O. Box 70
Arcadia, Florida

DETTELBACK INSECTICIDE CORP.
4101 Peachtree Road, N. E.
Atlanta 19, Georgia

DIAMOND ALKALI COMPANY
300 Union Commerce Bldg.
Cleveland 14, Ohio

DILL COMPANY, THE
Washington Street & McKinley Ave.
Norristown, Pa.

DIXI CHEMICAL COMPANY
P. O. Box 1711
Chattanooga, Tennessee

DONALDSON COMPANY, INC.
666 Pelham Boulevard
St. Paul 14, Minn.

DOUGLAS CHEMICAL COMPANY
620 E. 16th Avenue
North Kansas City, Mo.

DOUGLAS CHEMICAL CO., INC., THE
P. O. Box 6541
Richmond, Virginia

DOW CHEMICAL COMPANY, THE
Midland, Michigan

DRACKETT, PRODUCTS COMPANY, THE
5020 Spring Grove Avenue
Cincinnati 32, Ohio

DUMAS MILNER CORPORATION
4359 N. View Drive
Jackson, Miss.

DUN WIN COMPANY
136 Elm Street
S. Williamsport, Penn.

- DU PONT DE NEMOURS & COMPANY,
E. I., INC.
6054 Du Pont Bldg.
Wilmington 98, Delaware
- EAGLE CHEMICAL COMPANY
P. O. Box 8127
Chattanooga, Tennessee
- ECONOMICS LABORATORY, INC.
Guardian Bldg.
Saint Paul 1, Minn.
- EDWARDS-COUNCILOR CO., INC.
121 Colley Avenue
Norfolk 10, Virginia
- ELANCO PRODUCTS COMPANY
740 S. Alabama Street
Indianapolis 6, Indiana
- ELECTROLUX CORPORATION
500 Fifth Avenue
New York 36, New York
- ELI LILLY & COMPANY
740 S. Alabama Street
Indianapolis 6, Indiana
- EMERY INDUSTRIES, INC.
4200 Carew Tower
Cincinnati 2, Ohio
- FAIRFAX BIOLOGICAL LABORATORY
Electronic Road
Clinton Corners, New York
- FAIRFIELD CHEMICAL DIVISION
Food Machinery & Chemical Corp.
100 Niagara St.
Middleport, New York
- FAR-BEST CORPORATION
6715 McKinley Ave.
Los Angeles 1, Calif.
- FARMACAL INDUSTRIES, INC.
809 N. Market Street
Chattanooga 5, Tenn.
- FARMERS COOPERATIVE EXCHANGE,
INC.
P. O. Box 1069
Statesville, North Carolina
- FEDERAL CHEMICAL COMPANY, INC.
2701 Winthrop Avenue
Indianapolis 5, Indiana
- FERGUSON, ALEX C., CO.
44 East Oregon Avenue
Philadelphia 48, Pa.
- FLORIDA AGRICULTURAL SUPPLY CO.
1611 Talleyrand Avenue
Jacksonville, Florida
- FLY-CORD, INC.
P. O. Box 2006
Savannah, Georgia
- FRANKLIN RESEARCH COMPANY
5134 Lancaster Avenue
Philadelphia 31, Pa.
- FREEWAX CORPORATION
P. O. Box 509
Tallahassee, Florida
- FRENCH COMPANY, THE R. T.
1 Mustard Street
Rochester 9, New York
- FRONTIER CHEMICAL COMPANY
Division of Vulcan Materials Co.
Wichita, Kansas
- GARDEN HOSE SPRAY CO., INC.
7 Upland Road
Cambridge 40, Mass.
- GASTON JOHNSTON CORPORATION
24-64 45th Street
Long Island City 3, New York
- GEIGY AGRICULTURAL CHEMICALS
P. O. Box 430
Yonkers, New York
- GEORGIA-CAROLINA OIL COMPANY
P. O. Box 101
Macon, Georgia
- GEORGIA GULF SULPHUR CORP.
P. O. Box 132
Bainbridge, Georgia
- GETUM MANUFACTURING CO., INC.
1261 West 42nd Street
Norfolk 8, Virginia
- GIBSON-HOMANS COMPANY
Hutson Division
Railroad & Institute
Conyers, Georgia
- GLAMORENE, INC.
175 Entin Road
Clifton, New Jersey
- GLAMUR PRODUCTS, INC.
1024-26 Montgomery Street
Syracuse, New York
- GLIDDEN COMPANY, THE
900 Union Commerce Bldg.
Cleveland 14, Ohio
- GLOBE LABORATORIES, INC.
116 Commerce Street
Fort Worth 2, Texas
- GLOVER CO., INC., H. CLAY
1001 Franklin Avenue
Garden City, New York
- GLOVER MINERAL PRODUCTS, INC.
Kenbridge, Virginia
- GRACE & COMPANY, W. R.
Davison Chemical Div.
P. O. Box 858
Charleston, South Carolina
- GRAHAM CHEMICAL COMPANY
1407 Battleground Avenue
Greensboro, North Carolina
- GREAT LAKES CHEMICAL CORP.
Div. of Great Lakes Oil & Chem. Co.
753 Warner Bldg.
Washington 4, D. C.
- GREEVER'S, INC.
Chilhowie, Virginia
- GRISSMER COMPANY, EARL
Box 20092
Indianapolis, Ind.
- GUARDIAN CHEMICAL COMPANY
P. O. Box 1354
Atlanta 1, Georgia
- GULF OIL CORPORATION
Box 2140
Houston 1, Texas

- HAPPY DOG, INC.
8076 N. W. 22nd Ave.
Miami, Florida
- HAPPY JACK, INC.
P. O. Box 325
Snow Hill, North Carolina
- HARMON PRODUCTS COMPANY
616 E. Fourth Street
Gastonia, North Carolina
- HARRIS PRODUCTS COMPANY, INC.
P. O. Box 4
Miami Beach 39, Florida
- HARRIS & CO., INC., J. M.
P. O. Box 411
Roanoke, Virginia
- HARRIS MFG. CO., P. F.
101 W. 8th Street
North Little Rock, Arkansas
- HELLER LABORATORIES, INC.
Calumet Avenue & 40th Street
Chicago 53, Illinois
- HERCULES POWDER COMPANY
910 Market Street
Wilmington 99, Delaware
- HERTRON CHEMICAL COMPANY
306 Clanton Road
Charlotte 3, North Carolina
- HESS & CLARK, INC., DR.
7th & Orange Streets
Ashland, Ohio
- HILL MANUFACTURING COMPANY
1500 Jonesboro Road, SE
Atlanta 15, Georgia
- HILLYARD SALES COMPANY
302 N. 4th Street
St. Joseph 1, Missouri
- HILO COMPANY, THE
P. O. Box 246
Norwalk, Conn.
- HINTON & COMPANY, INC.
67 Murray Street
New York 7, New York
- HOLCOMB MFG. COMPANY, J. I.
1601 Barth Avenue
Indianapolis 7, Indiana
- HOLLYWOOD TERMITE CONTROL CO.
938 N. Eastern Avenue
Los Angeles 63, Calif.
- HOOKE CHEMICAL CORP.
666 Fifth Avenue
New York 19, New York
- HOPKINS AGRICULTURAL CHEMICAL CO.
124 S. Dickinson Street
Madison 1, Wisconsin
- HOT SHOT QUALITY PRODUCTS, INC.
701 N. Main Street
Memphis, Tennessee
- HOUSE OF HUSTON, INC.
1450 Broadway
New York 18, New York
- HOUSTON COMPANY, SAM
P. O. Box 662
Talladega, Alabama
- HOWERTON, GOWEN COMPANY, INC.
P. O. Box 247
Roanoke Rapids, North Carolina
- HUGE COMPANY, INC., THE
884-86 Hodiament Avenue
St. Louis 12, Missouri
- HUNTINGTON LABORATORIES, INC.
970 E. Tipton Street
Huntington, Ind.
- HUTSON & SONS, H. G.
P. O. Box 2190
Atlanta 1, Georgia
- HUTTIG SASH & DOOR COMPANY
1206 S. Vandeventer Avenue
St. Louis 10, Missouri
- HYDROPONIC CHEMICAL CO., INC.
P. O. Box 97-C
Copley, Ohio
- INDEPENDENT EXTERMINATING CO.
OF N. C.
210 S. Rutherford Street
Wadesboro, North Carolina
- INDUSTRIAL FUMIGANT COMPANY
923 State Line
Kansas City 1, Missouri
- INDUSTRIAL PROCESSING CHEMICALS, INC.
1215 East 4th Street
Charlotte, North Carolina
- IRWIN-WILLERT COMPANY
4044 Park Avenue
St. Louis 10, Missouri
- J & J CHEMICAL COMPANY, INC.
P. O. Box 3411
Houston 36, Texas
- S. C. JOHNSON & SON, INC.
1525 Howe Street
Racine, Wisconsin
- KAY CHEMICAL COMPANY
131 W. High Street
High Point, North Carolina
- KEM-PAC, INC.
13-21 Florida Avenue
PATERSON, NEW JERSEY
- KERR CHEMICALS, INC.
1001 Northwest Highway
Des Plaines, Illinois
- KILDEER CORP., THE
425 W. Walker Street
Upper Sandusky, Ohio
- KING CHEMICAL COMPANY
2342 South Lauderdale Street
Memphis 6, Tenn.
- KLENZADE PRODUCTS, INC.
P. O. Box 1020
Beloit, Wisconsin
- KILKER CHEMICAL CORP.
600 Doremus Ave.
Newark 5, New Jersey
- KOPPERS CO., INC.
Tar Products Division
430 Park Avenue
New York 22, New York

- K-R-O COMPANY
19½ N. Limestone Street
Springfield, Ohio
- LABCO PET PRODUCTS COMPANY
281 Franklin Street
Boston 10, Mass.
- LA SALLE CHEMICAL COMPANY
3601 S. Racine Avenue
Chicago 9, Illinois
- LATHAN CHEMICAL PRODUCTS
503 Neuse Street
Oriental, North Carolina
- LEBANON CHEMICAL CORPORATION
P. O. Box 532
Lebanon, Pennsylvania
- LEGGEAR, DR., INC.
4161 Beck Avenue
St. Louis 16, Missouri
- LESTER LABORATORIES, INC.
P. O. Box 4897
Atlanta 2, Georgia
- LETHELIN PRODUCTS CO., INC.
15 MacQuesten Parkway, South
Mount Vernon, New York
- LINCK CO., INC., O. E.
Route 46 & Valley Road
Clifton, New Jersey
- LITTLE GIANT COMPANY
812 S. Alston Street, Box "C"
Nashville, North Carolina
- LOUDEN, MACHINERY COMPANY, THE
Fairfield, Iowa
- MCCORMICK & CO., INC.
McCormick Building
Baltimore 2, Maryland
- McKESSON & ROBBINS, INC.
P. O. Box 548
Bridgeport, Connecticut
- MCLAUGHLIN GORMLEY KING CO.
1715 Fifth St., SE
Minneapolis 14, Minn.
- MABEX COMPANY, THE
Umbria & Lemonte Streets
Philadelphia 27, Pennsylvania
- MAHAFFEY COMPANY
P. O. Box 3145
Greenville, South Carolina
- MAINTENANCE SUPPLY COMPANY,
INC.
P. O. Box 283
Huntersville, North Carolina
- MALLINCKRODT CHEMICAL WORKS
P. O. Box 685, Church St. Sta.
New York 8, New York
- MARK LABORATORIES, INC.
7007 Kelly Street
Pittsburgh 8, Pennsylvania
- MASTER PRODUCTS COMPANY
Fayetteville, North Carolina
- MASURY-YOUNG COMPANY
76 Roland Street
Boston 29, Mass.
- MAXWELL INSECTICIDE COMPANY,
INC.
P. O. Box 5627
Raleigh, North Carolina
- MEADOWS CHEMICALS, INC.
80 Washington Street
Hempstead, L. I., New York
- MEHERRIN AGRICULTURAL &
CHEMICAL COMPANY
Severn, North Carolina
- MERCK & COMPANY, INC.
Rahway, New Jersey
- MICHIGAN CHEMICAL CORPORATION
500 North Bankson
St. Louis, Michigan
- MIDLAND LABORATORIES
210-220 Jones Street
Dubuque, Iowa
- MIKE, INC.
P. O. Box 92
Newland, North Carolina
- MILLER COMPANY, B. E.
P. O. Box 127
Hancock, Maryland
- MILLER CHEMICAL & FERTILIZER
CORP.
3006 West Cold Spring Lane
Baltimore 15, Maryland
- MILLER PRODUCTS COMPANY
607 Del Monte Way
St. Louis 12, Missouri
- MILLS-PEARSON CORP.
Dianol Division
2621 24th Street N.
St. Petersburg, Florida
- MOLONY FERTILIZER COMPANY
P. O. Box 314
Charleston, South Carolina
- MOMAR, INCORPORATED
1830 Ellsworth Industrial Dr., N.W.
Atlanta, Georgia
- MONA INDUSTRIES, INC.
Paterson 17, New Jersey
- MONSANTO CHEMICAL COMPANY
800 N. Lindbergh Street
St. Louis 66, Missouri
- MOTOMCO, INCORPORATED
89 Terminal Avenue
Clark, New Jersey
- MUTUAL PRODUCTS COMPANY
509 N. Fourth Street
Minneapolis, Minn.
- MYZON LABORATORIES
3129 W. 47th Street
Chicago 32, Illinois
- NATCON CHEMICAL COMPANY, INC.
Lexington & Revere Avenues
Bethpage, Long Island, New York
- NATIONAL ALUMINATE CORPORATION,
6216 W. 66th Place
Chicago 38, Illinois

**NATIONWIDE CHEMICAL COMPANY
INC.**

2209 Towler Street
Fort Myers, Florida

NIAGARA CHEMICAL DIVISION
Food Machinery & Chemical Corp.
Box 1709
Jacksonville 1, Florida**NIP-CO MANUFACTURING, INC.**

P. O. Box 356
New Rochelle, New York

NORTHERN INDUSTRIES, INC.

407 E. Michigan Street
Milwaukee 2, Wisconsin

**NOTT MANUFACTURING COMPANY,
INC.**

200 South Water Street
Poughkeepsie, New York

NOWLAND COMPANY, THE GEO. H.

538 East 5th Street
Cincinnati 2, Ohio

NUODEX PRODUCTS COMPANY, INC.

110 East 42nd Street
New York 17, New York

ODOR-AIRE, INC.

330 North Mosley
P. O. Box 487
Wichita, Kansas

OLIN MATHIESON CHEMICAL CORP.

Mathieson Bldg.
10 Light Street
Baltimore 3, Maryland
Williamston, N. C.

ONE-SPOT COMPANY

Jessup, Maryland

OPITZ, INC., JOHN

50-14-39th Street
Long Island City 4, New York

**PANTHER OIL & GREASE MFG. COM-
PANY**

840 N. Main
Fort Worth, Texas

PAPER PRODUCTS INCORPORATED

P. O. Box 5158
Long Beach 5, California

PARKE, DAVIS & COMPANY

Foot of Joseph Campau
Detroit 32, Michigan

**PARRAMORE & GRIFFIN SEED CO.,
INC.**

108 South Toombs Street
Valdosta, Georgia

PAXTON ENTERPRISES

P. O. Box 728
Palacios, Texas

PEARSON & COMPANY

151 N. Commerce St.
Mobile, Alabama

PEELE COMPANY, INC., W. R.

P. O. Box 7
516 S. Salisbury St.
Raleigh, North Carolina

PENICK & COMPANY, S. B.

50 Church Street
New York 8, New York

**PENINSULAR PRODUCTS COMPANY,
INC.**

P. O. Box 8055
West Palm Beach, Florida

PENN-CHAMP OIL CORPORATION

P. O. Box 191
Butler, Pennsylvania

PENNSALT OF WASHINGTON DIV.

2901 Taylor Way
Tacoma, Washington

**PENNSYLVANIA ENGINEERING COM-
PANY**

1119-21 N. Howard Street
Philadelphia 23, Pa.

PENNSYLVANIA REFINING COMPANY

Butler Savings & Trust Co. Bank Bldg.
Butler, Pennsylvania

PENNSYLVANIA SALT MFG. COMPANY

Three Penn Center Plaza
Philadelphia 2, Pa.

PENOLA OIL COMPANY

15 W. 51st Street
New York, New York

PEST-GUARD PRODUCTS, INC.

731 W. Davis Street
Dallas 8, Texas

PESTICIDE DISTRIBUTING CO.

3534 Central Ave.
Charlotte, North Carolina

PET CHEMICALS, INC.

1038 N.W. 21st Ter.
Miami, Florida

PETPAK PRODUCTS COMPANY

5151 N. 32nd Street
Milwaukee 9, Wis.

PFEIFFER COMPANY, THE

3965 Laclede Avenue
St. Louis 8, Missouri

PFIZER & COMPANY, INC., CHARLES

11 Bartlett Street
Brooklyn 6, New York

**PHELPS DODGE REFINING CORPORA-
TION**

300 Park Avenue
New York 22, New York

PIC CORPORATION

480 Washington St.
Newark 2, New Jersey

PIEDMONT CHEMICAL CORP.

P. O. Box 978
Savannah, Georgia

**PIONEER MANUFACTURING COMPANY,
THE**

3053 E. 87th Street
Cleveland 4, Ohio

PITTSBURGH PLATE GLASS COMPANY

New Albany Road
Moorestown, New Jersey

PLANTABBS CORPORATION

1105 Maryland Avenue
Baltimore 1, Maryland

PLANTERS CHEMICAL CORPORATION

3111 Virginia Beach Blvd.
Norfolk 16, Virginia

PLOUGH, INC.
3022 Jackson Ave.
Memphis, Tenn.

POLK MILLER PRODUCTS CORPORATION
2007 N. Hamilton Street
Richmond, Virginia

PRATT COMPANY, B. G.
204 21st Avenue
Paterson, New Jersey

PRATT LABORATORIES, INC.
P. O. Box 602
Danville, Ky.

PRENTISS DRUG & CHEMICAL COMPANY, INC.
101 W. 31st Street
New York 1, New York

PROCTOR & GAMBLE CO., THE
P. O. Box 599
Cincinnati 1, Ohio

PROTECTION PRODUCTS MFG. CO.
2305 Superior Avenue
Kalamazoo, Michigan

PUREX CORPORATION, LTD.
9300 Rayo Avenue
South Gate, California

PYRROLE CHEMICAL CORP.
817 Spring Lane
Portsmouth, Ohio

QUALITY CHEMICAL CORP.
P. O. Box 70
Wilson, N. C.

RALSTON PURINA COMPANY
835 S. Eighth Street
St. Louis, Missouri

RAT BISCUIT COMPANY, THE
19½ N. Limestone St.
Springfield, Ohio

RAT LUNCHES COMPANY
P. O. Box 512
Denver 4, Colorado

RAWLEIGH COMPANY, THE W. T.
223-225 E. Main St.
Freeport, Ill.

REARDON LABORATORIES, INC., W. G.
330 N. Main Street
Port Chester, New York

REASON-HILL CORP.
P. O. Box 36
Jacksonville, Ark.

REEFER-GALLER, INC.
521 Fifth Avenue
New York 17, New York

REICHOLD CHEMICALS, INC.
Gen. Sales Mgr.
South Division
Tuscaloosa, Ala.

REILLY TAR & CHEM. CORP.
1615 Merchant Bank Bldg.
Indianapolis 4, Ind.

REXAIR, INCORPORATED
c/o The Ottawa Chemical Co.
700 N. Wheeling St.
Toledo 5, Ohio

REXALL DRUG CO.
8480 Beverly Boulevard
Los Angeles 54, Calif.

REX RESEARCH CORP.
600 Montrose Ave.
Toledo 7, Ohio

RIGO MANUFACTURING CO., INC.
P. O. Box 1188
Nashville, Tennessee

ROANOKE CHOWAN CHEM. CORP.
214 Catherin St.
Ahoskie, North Carolina

RODENT CONTROL FUND, N. C. STATE COLLEGE
P. O. Box 5577
Raleigh, North Carolina

ROHM & HAAS COMPANY
222 W. Washington Square
Philadelphia 5, Pa.

ROYAL CHEMICAL COMPANY, INC.
P. O. Box 922
Albemarle, North Carolina

SABINE CHEMICAL COMPANY
P. O. Box 1206
Port Arthur, Texas

SALSBUURY'S LABORATORIES, DR.
500 Gilbert Street
Charles City, Iowa

SANFAX CORP.
P. O. Box 604
Atlanta, Georgia

SANITATION PRODUCTS COMPANY, INC.
3534 Central Avenue
Charlotte, North Carolina

SAUER, THE C. F. COMPANY
2000 West Broad Street
Richmond 20, Virginia

SCIENCE PRODUCTS COMPANY
1180 East 63rd Street
Chicago 37, Illinois

SCOTT & SONS COMPANY, O. M.
Marysville, Ohio

SEABOARD SEED COMPANY
701 S. Front Street
Philadelphia 47, Pa.

SEACOAST LABORATORIES, INC.
156 Perry Street
New York 14, New York

SEARS, ROEBUCK & COMPANY
925 South Homan Avenue
Chicago 7, Illinois

SELIG COMPANY, THE
336-350 Marietta St., NW
Atlanta, Georgia

SENORET CHEMICAL COMPANY
610 Gratiot Street
St. Louis 2, Missouri

SEXTON & COMPANY, JOHN
10 Chestnut Street
Philadelphia 5, Pa.

SHELL CHEMICAL CORPORATION
110 W. 51st Street
New York 20, New York

SHELL OIL COMPANY
50 W. 50th Street
New York 20, New York

SHEPARD CHEMICAL WORKS
317 S. 2nd Street
Wilmington, North Carolina

SHERMAN LABORATORIES
Agricultural Division
5031 Grandy Avenue
Detroit 11, Michigan

SHULTON, INC.
697 Route 46
Clifton, New Jersey

SHUPTRINE COMPANY
P. O. Box 644
Savannah, Georgia

SINGLETARY, JR. & CO., F. B.
208 Washington Street
Rocky Mount, North Carolina

SMITH SEED & FEED COMPANY
315 Lynn Street
Danville, Virginia

SMITH SPECIALTIES COMPANY, T. W.
P. O. Box 5146
Charlotte 6, North Carolina

SNELL, FOSTER D., INC.
29 W. 15th Street
New York 11, New York

SOUTHERN AGRICULTURAL CHEMICALS, INC.
P. O. Box 238
Kingstree, South Carolina

SOUTHERN AGRICULTURAL INSECTICIDES, INC.
P. O. Box 218
Palmetto, Florida

SOUTHERN CHEMICAL COMPANY
P. O. Box 249
Hendersonville, North Carolina

SPINDLE CITY CHEMICAL CO.
1015 Cherokee Avenue
Rock Hill, South Carolina

SPRITTINE CHEMICAL COMPANY
P. O. Box 233
Wilmington, N. C.

SPRAYWAY, INC.
7644 Vincennes Ave., S.
Chicago 20, Ill.

SPUTNIK FLY KILLER CO.
Delmer Engineers
5120 E. Florence Ave.
Bell, California

STALFORD PRESSURE-PAK, INC.
2012 Hammonds Ferry Rd.
Baltimore 27, Maryland

STANDARD AGRICULTURAL CHEMICALS, INC.
1301 Jefferson Street
Hoboken, New Jersey

STANDARD LABORATORIES, INC.
201 Tabor Road
Morris Plains, New Jersey

STANDARD PACKAGING CORP.
200 E. 42nd Street
New York 17, New York

STATE CHEMICAL COMPANY
P. O. Box 878
Greenville, North Carolina

STAUFFER CHEMICAL COMPANY
P. O. Box 5388
Tampa 5, Florida

STEARNS' ELECTRIC PASTE CO.
8 South Dearborn Street
Chicago 3, Illinois

STEPHENSON CHEMICAL COMPANY
P. O. Box 188
College Park, Georgia

STERLING COMPANY, INC., THE
2801-05 Locust Street
St. Louis 3, Missouri

STERWIN CHEMICALS, INC.
1450 Broadway
New York 18, New York

STEVENS INDUSTRIES, INC.
P. O. Box 272
Dawson, Georgia

STRICKLAND & COMPANY, J.
1400 Ragan Street
Memphis 2, Tenn.

STULL'S CHEMICALS, INC.
P. O. Box 6386
San Antonio, Texas

SUN OIL COMPANY
1608 Walnut Street
Philadelphia 3, Pa.

SUWANNEE DRUG COMPANY
128 Central Avenue
Newberry, Florida

SWEENEY, MFG., W. R., INC.
340 S. Main Street
Salisbury, Missouri

SWIFT & COMPANY, AG. CHEM. DIV.
P. O. Box 7537
Norfolk 15, Virginia

TANCK, INC., RAY H.
Middleton, Wisconsin

TAYLOR CHEMICAL COMPANY
Aberdeen, North Carolina

TENNESSEE CORPORATION
617-29 Grant Building
Atlanta 1, Ga.

TERRELL MOTHPROOF INSTITUTE
2 West Columbia Street
Springfield, Ohio

TEWELES, L. SEED COMPANY
222 S. 3rd Street
Milwaukee, Wisconsin

TEXIZE CHEMICALS, INC.
P. O. Box 1820
Greenville, South Carolina

THOMAS ENTERPRISES, INC.
4801 S. Peoria
Tulsa 5, Oklahoma

TOXITE LABORATORIES, INC.
P. O. Box 29241
Cumberland, Indiana

TRIANGLE CHEMICAL COMPANY
206 Lower Elm Street
Macon, Georgia

TWIN SUPPLY SERVICE, INC., THE
25 South Gay Street
Baltimore 2, Maryland

UNION CARBIDE CORPORATION
270 Park Avenue, 30th Floor
New York 17, New York

UNITED-HECKATHORN
600 S. 4th Street
Richmond, California

U. S. BORAX & CHEMICAL CORP.
630 Shatto Place
Los Angeles 5, Calif.

U. S. RUBBER COMPANY
1230 Avenue of the Americas
New York 20, New York

VACCINOL CHEMICAL COMPANY
2487 Penn., Box 3205
Memphis 9, Tennessee

VAN BRODE MILLING COMPANY, INC.
20 Cameron Street
Clinton, Mass.

VANDERBILT COMPANY, INC., R. T.
230 Park Avenue
New York 17, New York

VAPOR PRODUCTS COMPANY
P. O. Box 8294
Orlando, Florida

VAPORETTE, INC.
2416 S. Harwood
Dallas 1, Texas

VESTAL LABORATORIES, INC.
4963 Manchester
St. Louis 10, Missouri

VIKON CHEMICAL COMPANY
P. O. Box 277
Elon College, North Carolina

VINELAND POULTRY LAB.
P. O. Box 70
Vineland, New Jersey

VINSON CHEMICAL PRODUCTS CO.
4435 N. W. 2nd Avenue
Miami 37, Florida

VIRGINIA-CAROLINA CHEMICAL CORP.
401 E. Main Street
Richmond, Virginia

VIRGINIA SMELTING COMPANY
West Norfolk, Virginia

WALGREEN COMPANY
4300 Peterson Avenue
Chicago 46, Illinois

WALKER REMEDY COMPANY
224-228 Commercial
Waterloo, Iowa

WATKINS COMPANY, THE J. R.
150 Liberty Street
Winona, Minnesota

WECO PRODUCTS COMPANY
20 N. Wacker Drive
Chicago, Illinois

WEEVIL-CIDE COMPANY, THE
1323 Union Avenue
Kansas City, Missouri

WEIL-ELLIOTT CHEMICAL COMPANY,
INC.
401 N. 37th Street
Louisville 12, Kentucky

WELLS & COMPANY, INC., S. C.
1-3 Church St.
LeRoy, New York

WESTCHESTER VETERINARY PROD-
UCTS
Division of Combe Chem., Inc.
180 Mamaroneck Avenue
White Plains, New York

WEST DISINFECTING DIV.,
WEST CHEMICAL PRODUCTS
42-16 West Street
Long Island City 1, New York

WESTON PRODUCTS COMPANY
330 W. Salisbury Street
Asheboro, North Carolina

WHITMIRE RESEARCH LABS., INC.
339 S. Vandeventer Avenue
St. Louis 10, Missouri

WHITMOYER LABORATORIES, INC.
19 N. Railroad Street
Myerstown, Pa.

WILSON, INC., ANDREW
Baltusrol Way
Springfield, New Jersey

WINDSOR WAX COMPANY, INC.
611 Newark Street
Hoboken, New Jersey

WINN-DIXIE STORES
P. O. Box 840
Greenville, South Carolina

WOODLETS, INC.
2048 Niagara Street
Buffalo 7, New York

WOOLFOLK CHEMICAL WORKS, LTD.
East Main Street
Fort Valley, Ga.

WORRELL-CONSOLIDATED LABORATO-
RIES, INC.
1470 S. Vandeventer Avenue
St. Louis 10, Missouri

WRIGHT COMPANY, INC., M. A.
505 Court Street
Brooklyn 31, New York

WYANDOTTE CHEMICALS CORPORA-
TION
1609 Biddle Avenue
Wyandotte, Michigan

WYATT-QUARLES SEED COMPANY
327 S. Wilmington Street
Raleigh, N. C.

WYETH LABORATORIES
P. O. Box 8299
Philadelphia 1, Pennsylvania

YALE CHEMICAL COMPANY
P. O. Box 715
Nashville, Tenn.

ZUMMACH, INC., WM. F.
120 E. Mineral Street
Milwaukee, Wisconsin

N. C. Aerial Crop Dusting Law and Regulations

The North Carolina Aerial Crop-Dusting Law, enacted by the General Assembly of 1953, has passed through its seventh year of enforcement. Its purposes are to protect public health and welfare, to bring improved order in the aerial dusting industry and to eliminate practices which were not in the best interest of the industry or those whom it serves. Marked progress has been made, but there is much yet to be accomplished. The North Carolina Aerial Applicators Association and other members of the industry sponsored the law and cooperate in its enforcement.

The law and the regulations promulgated thereunder, in summary, require the registration and licensing of those who engage in the custom application of pesticides by aircraft in this state. Qualifications for license requires adequate knowledge of the proper use and application of pesticides, the dangers involved and precautions necessary in their application.

Annual renewal of all licenses is required. The validity of any license is further restricted to the period of time that coverage by liability bond or insurance for damage by aircraft is in force. The minimum liability coverage is \$5,000.00 for property damage, \$10,000.00 for personal injury, and \$20,000.00 for any one accident.

Licenses are of two types: Contractors—who contract for the airplane application of pesticides; and Applicators or aviators—those who do the application work. An individual, upon qualification, may procure both licenses. Applicator's licenses, among other things, are contingent on Civil Aeronautics Authority certificates and waiver for low flying.

Licenses may be suspended or revoked if licenses are no longer qualified, for fraudulent, faulty, careless or negligent operations, or for other failure to comply with the requirements of the law. They are automatically nullified upon cancellation or expiration of liability coverage.

The law and regulations are given in the succeeding pages.

N. C. AERIAL CROP-DUSTING LAW

CHAPTER 106, N. C. GENERAL STATUTES.

Article 4B, Aircraft Application of Pesticides

§106-65.13. Definitions. For the purposes of this article:

(1) The term "aircraft" means any contrivance now known or hereafter invented, used or designed for navigation of, or flight in, the air.

(2) The term "Board of Agriculture" means the North Carolina Board of Agriculture.

(3) The term "Commissioner" means the Commissioner of Agriculture.

(4) The term "custom application of pesticides" means any application of pesticides by aircraft.

(5) The term "fungi" means all non-chlorophyll-bearing thallophytes (that is, all non-chlorophyll-bearing plants of a lower order than mosses and liverworts), as, for example, but not limited to, rusts, smuts, mildews, molds, yeasts, and bacteria, except those on or in living man or other animals.

(6) The term "fungicide" means any substance or mixture of substances intended for preventing, destroying, repelling, or mitigating fungi or plant disease.

(7) The term "herbicide" means any substance or mixture of substances intended for preventing, destroying, repelling, or mitigating any weed.

(8) The term "insect" means any of the numerous small invertebrate animals generally having the body more or less obviously segmented, for the most part belonging to the class Insecta, comprising six-legged, usually winged forms, as, for example but not limited to, beetles, bugs, bees, and flies, and to other allied classes of arthropods whose members are wingless and usually have more than six legs, as, for example, but not limited to, spiders, mites, ticks, centipedes, and wood lice.

(9) The term "insecticide" means any substance or mixture of substances intended for preventing, destroying, repelling, or mitigating any insects which may be present in any environment whatsoever.

(10) The term "person" means any individual, firm, partnership, association, corporation, company, joint stock association, or body politic, or any organized group of persons whether incorporated or not; and includes any trustee, receiver, assignee, or other similar representative thereof.

(11) The term "pesticide" or "economic poison" means any substance or mixture of substances intended for preventing, destroying, repelling, or mitigating any insects, rodents, fungi, bacteria, weeds, or other forms of plant or animal life or viruses, except viruses on or in living man or other animals, which the commissioner shall declare to be a pest.

(12) The term "weed" means any plant or plant part which grows where not wanted.

§106-65.14. Licenses.

(a) It shall be unlawful for any person to engage in custom application of pesticides within this State at any time without a license issued by the Commissioner. Application for a license shall be made to the Commissioner and each application shall contain information regarding the applicant's qualifications and proposed operations and such other relevant matters as may be required pursuant to regulations promulgated by the Board of Agriculture.

(b) The Commissioner may require the applicant to show, upon examination, that he possesses adequate knowledge concerning the proper use

and application of pesticides, and the dangers involved and precautions to be taken in connection with their application. If the applicant is other than an individual, the applicant shall designate an officer, member, or technician of the organization to take the examinations, such designee to be subject to the approval of the Commissioner. If the extent of the applicant's operations warrant it, the Commissioner may require more than one officer, member or technician to take the examination.

(c) If the Commissioner finds the applicant qualified, the Commissioner shall issue a license, which shall authorize the licensee to perform custom application of pesticides within this State. The license may restrict the applicant to the use of a certain type or types of materials if the Commissioner finds that the applicant is qualified to use only such type or types. If a license is not issued as applied for, the Commissioner shall inform the applicant in writing of the reasons therefor. All licenses issued under this article shall expire on December 31 of each year and may be renewed upon the filing of a new application therefor.

(d) The Commissioner may suspend, pending inquiry, for not longer than ten days, after opportunity for a hearing, may revoke, or modify the provisions of any license issued under this section, if he finds as a fact that the licensee is no longer qualified or has engaged in fraudulent business practices in the custom application of pesticides, or has made any custom application in a faulty, careless, or negligent manner, or has violated any of the provisions of this article or regulations made thereunder.

(e) The Commissioner may require, under such rules and regulations as may be promulgated under this article, from each applicant a liability bond against damage to person or property by aircraft and a reasonable performance bond with sufficient surety satisfactory to the Commissioner, which performance bond is to secure the performance of contractual obligations of the licensee with respect to custom application of pesticides. Any person injured by the breach of any such obligation or any person damaged by such aircraft shall be entitled to sue on the bond in his own name in any court of competent jurisdiction to recover the damages he may have sustained.

(f) Any person aggrieved by any action of the Commissioner may within ten days after notice thereof request a review of said action by the Board of Agriculture. If no request for review is so made, the decision of the Commissioner shall be final. If a review is so requested, the Board of Agriculture shall promptly review the action of the Commissioner and either affirm or over-rule his action. If the Board of Agriculture affirms the Commissioner, it shall find the facts of the case and the aggrieved person may within thirty days after notice thereof appeal to the Superior Court of the county in which such person resides or to the Superior Court of Wake County and the matter may be heard in or out of chambers. Notice of the appeal shall be served on the Commissioner and within ten days thereafter the Commissioner shall certify and file in the court to which the appeal is taken a transcript of any record pertaining thereto, including a transcript of evidence received. The court shall have jurisdiction to affirm,

set aside or modify the action of the Board of Agriculture, *provided*, that the findings of fact as made by said Board, if supported by evidence, shall be conclusive.

Any license which has been suspended or revoked by the Commissioner or Board of Agriculture shall remain suspended or revoked until the laws, and regulations of the Board of Agriculture, have been complied with or until the decision or action of said Commissioner or Board has been set aside by court action.

§106-65.15. Regulations, materials and methods of application.—The Board of Agriculture, after public hearing, may adopt regulations prohibiting the use of materials or methods in custom application of pesticides to the extent necessary to protect health or property and may make such other regulations as it may deem necessary to carry out the provisions of this article. *Provided, however*, such regulations shall not be inconsistent with regulations issued by this State or by the Federal Government respecting safety in air navigation or operation of aircraft and before issuing any regulations directly related to any matter within the jurisdiction of any other official of this State, the Commissioner shall consult with that official with reference thereto.

§106-65.16. Reports.—The Board of Agriculture may by regulation require any licensee to maintain records and furnish reports giving information with respect to particular applications of pesticides and such other relevant information as the Board of Agriculture may deem necessary.

§106-65.17. Information.—The Commissioner may, in cooperation with the North Carolina Agricultural Experiment Station, publish information regarding injury which may result from improper application or handling of pesticides and the methods and precautions designed to prevent such injury.

§106-65.18. Penalties.—Any person violating the provisions of this article or the regulations issued hereunder shall be guilty of a misdemeanor and upon conviction shall be fined or imprisoned or both in the discretion of the court.

§106-65.19. Enforcement.—For the purpose of carrying out the provisions of this article the Commissioner may enter upon any public or private premises at reasonable times in order to have access for the purpose of inspecting any aircraft or materials subject to this article.

§106-65.20. Delegation of Duties.—The functions vested in the Commissioner by this article may be delegated by him to such employees of the Department of Agriculture or other qualified persons as the Commissioner may from time to time designate for such purposes.

§106-65.21. Cooperation.—The Commissioner may cooperate with any other agency of this State or its sub-divisions or with any agency of any other State or of the Federal Government for the purpose of carrying out the provisions of this article and of securing uniformity of regulations.

RULES, REGULATIONS, DEFINITIONS AND STANDARDS

CHAPTER XII

Application of Pesticides By Aircraft

ARTICLE 1. APPLICATION OF PESTICIDES BY AIRCRAFT

§12-1. Application for license.—Application for a license to engage in the custom application of pesticides by aircraft shall be made to the Commissioner of Agriculture upon forms prescribed for that purpose and furnished by the Department of Agriculture.

§12-2. Classes of licenses.—There shall be two classes of licenses which shall authorize the holders thereof to engage in the custom application of pesticides to the extent authorized by the license and the rules and regulations of the State Board of Agriculture. The classes of licenses shall be as follows:

(a) Contractor's license. A contractor's license shall authorize the holder thereof to contract for the aerial application of pesticides.

(b) Airplane Applicator's License. An airplane applicator's license shall entitle the holder thereof to apply pesticides as contracted for by the holder of an operator's license.

§12-3. Examination for license.—Before any license is issued, the Commissioner may require the applicant to undergo such examination and to submit such other information as the Commissioner in his discretion may deem necessary for a proper determination of the applicant's qualifications.

§12-4. Modification, revocation or suspension of license.—All licenses are subject to modification as to terms and privileges and may be revoked or suspended by the Commissioner of Agriculture according to the provisions of G.S. 106-65.14. Licenses may be issued for periods of less than one year but all licenses shall expire on December 31 of each year and may be renewed upon the filing of a new application therefor.

§12-5. Display of license.—All holders of contractor's or airplane applicator's licenses shall keep their licenses conspicuously posted at their place of business or about their person when engaged in the application of pesticides by aircraft and shall show their license upon request. Upon satisfactory proof of the loss or destruction of a license, a duplicate thereof may be issued to the qualified holder.

§12-6. Liability bond.—No airplane applicator's license shall be issued unless the applicant submits to the Commissioner of Agriculture along with the application for license a liability insurance policy covering said applicant and the person or persons for whom the custom application of pesticides is to be made against liability for damage to all persons or property caused by said aircraft. Said liability insurance policy shall cover at least \$5,000.00 for property damage, \$10,000.00 for personal injury, and \$20,000.00 for any one accident; and shall be required to be in force for the duration of the applicant's license: Provided, however, it is not the intent of this

regulation for any liability insurance policy to cover damages resulting from the application of pesticides, but only for damages caused by aircraft.

§12-7. Report and records.—Each contractor shall maintain daily reports and records on forms satisfactory to the Commissioner and all such reports and records shall be kept open and available for inspection by any authorized representative of the Department of Agriculture. Each contractor shall also submit to the Commissioner of Agriculture on or before December 31 of each year an annual report on forms furnished by the Commissioner, covering in detail the contractor's activities for the period covered by the report.

§12-8. Responsibility of contractors and applicators.—All contractors and applicators shall be responsible for the proper use and maintenance of equipment and for the proper use and application of pesticides; and shall at all times use due care for the protection of surrounding property, crops, fish ponds, plants and livestock. Any contractor or applicator who violates or disregards the provisions of this regulation or who makes any custom application in faulty, careless, or negligent manner shall have his license suspended or revoked according to the provisions of G.S. 106-65.14.

(Adopted: June 22, 1953)

(Authority: G.S. 106-65.15)

Licenses Under N. C. Aerial Crop-Dusting Law for 1960

This list gives the names of firms or individuals who registered with the North Carolina Department of Agriculture and were issued licenses as Contractors, Applicators, or both, for the year 1960. Each type of license is indicated in connection with the respective name of individual or firm as given in the list.

All licenses expired December 31, 1960, or earlier according to expiration of insurance coverage and are subject to renewal for operations in 1961.

ALAMANCE AVIATION SERVICE, INC.

P. O. Box 1331
Burlington, North Carolina
Contractor

CLARENCE BRISCO ANDERS

Horse Shoe, North Carolina
P. O. Box 201
Florida City, Florida
Applicator

MARVIN F. ANGE

Route 1
Plymouth, North Carolina
Contractor

IRA WILKERSON ARMES

133 Holbrook Avenue
Danville, Virginia
Applicator

JACK B. ARMSTRONG

New Bern, North Carolina
Applicator

W. H. BAGGETT

Baggett Dusting Service
General Delivery
Scotland Neck, North Carolina
603 S. 22nd Street
Ft. Pierce, Florida
Applicator and Contractor

JOSEPH K. BALL, JR.

Route 3
Louisburg, North Carolina
Applicator

MILTON R. BARNES

P. O. Box 334
Greensboro, North Carolina
Applicator

LLOYD H. BARNWELL

Barnwell Flying Service
c/o George Kittrell
Corapeake, North Carolina
826 N. Daughtry Street
Douglas, Georgia
Applicator and Contractor

CARL F. BASS

Route 1
Belew Creek, North Carolina
226 W. 2nd Street
Washington, North Carolina
Applicator

WILLIAM R. BEAMAN, JR.

1222 Robert Road
Wilson, North Carolina
Contractor

FRANCIS M. BRUCE

P. O. Box 405
Greer, South Carolina
Applicator

OSCAR B. CASE

Case Dusting Service
55 Mt. Airy Street
Hendersonville, North Carolina

WILLIAM CHARNEY

Clinton, North Carolina
Battle Creek, Michigan
Applicator

H. H. CHRISTOPHER

Christopher Dusting Service, Inc.
Box 446
Raeford, North Carolina
Box 716
Okeechobee, Florida
Applicator and Contractor

CHARLES L. CLINE

Emporia, Virginia
R.F.D. 2
Ringgold, Virginia
Applicator

JAMES O. COMPTON, JR.

T/A Compton's Flying Service
P. O. Box 362
South Boston, Virginia
Applicator and Contractor

T. EDWARD COMPTON

Edward Compton Airplane Crop Spraying
Route 2
Ringgold, Virginia
Applicator and Contractor

CONAIRE HELICOPTERS, INC.

P. O. Box 1286
Spartanburg, South Carolina
Contractor

ROBERT W. CONWAY

P. O. Box 1286
Spartanburg, South Carolina
Applicator

E. L. COX

546 Homewood Avenue
Burlington, North Carolina
Applicator

CRAFT SPRAYING, INC.
Tractor Repair Shop
Farmville, North Carolina
Contractor

JAMES L. DeHAVEN
Ahoskie, North Carolina
Applicator

C. G. DICKENS
Route 7, Belle Avenue
Winston-Salem, North Carolina
Applicator

JAMES ELLIS
Shelby, North Carolina
Applicator

LLOYD A. ESH
Gordonville, Pennsylvania
Box 202
Ridgeway, Virginia
Applicator

GEORGE A. EWELL
Vanceboro, North Carolina
Applicator

DOVER FOGLEMAN
Burlington, North Carolina
Applicator

THELBERT A. FOUNTAIN
Richlands, North Carolina
Applicator

QUENTIN A. FREEMAN
Municipal Airport
Lumberton, North Carolina
Applicator and Contractor

SIDNEY E. GIBBS
Route #2
King, North Carolina
Applicator

GREENVILLE AVIATION, INC.
P. O. Box 231
Washington, North Carolina
Contractor

RAY GRIFFIN
Ray Griffin Flying Service
P. O. Box 665
Greensboro, North Carolina
Applicator and Contractor

HIGH POINT TRINITY AIR SERVICE
P. O. Box 1905
High Point, North Carolina
Contractor

WALTER ED. HIGHT, JR.
Henderson, North Carolina
Applicator

HOLLEY'S DUSTING SERVICE, INC.
P. O. Box 945
Homestead, Florida
Contractor

T. R. HOPE
Route #2, Box 24
Henderson, North Carolina
Contractor

FRANK J. HORVATH
1043 Superior Avenue
Dayton, Ohio
Applicator

IDEAL DUSTING & SPRAYING SERVICE
Route 1
Chinquapin, North Carolina
Contractor

JERNIGAN SPRAY SERVICE, INC.
P. O. Box 488
Ahoskie, North Carolina
Contractor

PERRY W. JONES
325 Spring Street
Hendersonville, North Carolina
Applicator

JOSH JORDAN
P. O. Box 275
Candor, North Carolina
Applicator and Contractor

RAYMOND L. KEYS
543 Rowland Street
Henderson, North Carolina
Applicator

KING FLYING SERVICE
Route 2
King, North Carolina
Contractor

CECIL LANE DUSTING & SPRAYING
Route 2, River Road
Washington, North Carolina
Contractor

DWIGHT LOHR
Archdale, North Carolina
Applicator

JACK LOWERS
AAA Flying Service
Route 3, Box 22B
Clinton, North Carolina
Applicator and Contractor

LELAND S. McMAHON
Route 2
Reidsville, North Carolina
Applicator and Contractor

JIMMY F. MARKHAM
Elizabeth City, North Carolina
Applicator

GEORGE BASCOMB MARSHALL
55 Mt. Airy Street
Hendersonville, North Carolina
Applicator

CHARLES HENRY MILLER
c/o 55 Mt. Airy Street
Hendersonville, North Carolina
511 Airport Road
Robstown, Texas
Applicator

S. S. MILLER
Reidsville, North Carolina
Applicator

RICHARD MINGES
Route 2, River Road
Washington, North Carolina
Applicator and Contractor

CLARENCE T. MODLIN
Scotland Flying Service, Inc.
205 Wilson Street
Laurinburg, North Carolina
Applicator and Contractor

PERTTI A. MUTTILAINEN
205 Wilson Street
Laurinburg, North Carolina
Applicator

R. D. NANCE
3005 Woodland
Winston-Salem, North Carolina
Applicator

JAMES A. NAYLOR
P. O. Box 132
Clinton, North Carolina
Applicator

ROBERT ALTON NAYLOR
Clinton Flying Service
P. O. Box 63
Clinton, North Carolina
Applicator and Contractor

JOHN M. O'CONNELL
803 Briggs Street
Wilson, North Carolina
Contractor

DELMAR C. OWENS
Owens Crop Dusting Service
202 Madison Street
Plymouth, North Carolina
Applicator and Contractor

JOHN E. PACE, JR.
Blue Ridge Airways
P. O. Box 202
Ridgeway, Virginia
Fixed Base—Martinsville, Virginia
Applicator and Contractor

GROVER T. PARKS
Climax, North Carolina
Applicator

KENNETH L. PASCHAL
Route 5, Box 428
Reidsville, North Carolina
Applicator

RALPH C. PHILPOTT
3436 Immanuel Road
Greensboro, North Carolina
Applicator

DILLARD M. POWELL
Route #2
Ruffin, North Carolina
Contractor

F. M. POWELL
1705 Powatan
Fayetteville, North Carolina
Applicator and Contractor

JAMES C. PRICE
Pineville, North Carolina
Applicator

CLAUDE M. RIDDLE
Route 2
Dobson, North Carolina
Clinton, North Carolina
Applicator

FRED E. ROBERTSON, JR.
Danville, Virginia
Route 3
Virgilina, Virginia
Applicator

ROCKY MOUNT DUSTING & SPRAY
CO., INC.
Box 471
Rocky Mount, North Carolina
Contractor

MILTON M. RODDY
P. O. Box 471
Rocky Mount, North Carolina
Applicator

PAT SCHIFFER
Clinton, North Carolina
222 Allegan Street
Plainwell, Michigan
Applicator

LINDY SHEPHERD, JR.
Lindy Shepherd's Airplane Crop Spraying
Service
Route 7
Burlington, North Carolina
Applicator and Contractor

NATHAN M. SIMPSON
Simpson Crop Service
Route 2
Elon College, North Carolina
Applicator and Contractor

JAMES GORDON SMILEY
Box 147, Seymour Johnson Air Force Base
Goldsboro, North Carolina
Clover, Virginia
Applicator

THOMAS E. STANCIL, JR.
Stancil Flying Service
P. O. Box 101
Washington, North Carolina
Applicator and Contractor

RHONDA L. STORY
Pamlico Flying Service
413 Avenue A.
New Bern, North Carolina
Applicator and Contractor

ELBERT SUTHARD, JR.
Route 5, Box 326-A
Reidsville, North Carolina
Applicator

STANLEY S. SVRLINGA
General Delivery
Laurinburg, North Carolina
P. O. Box 421
Zellwood, Florida
Applicator and Contractor

GENE A. SWOFFORD
Route 1
Plymouth, North Carolina
Applicator

AYLOR T. TALBOTT
Wm. Tuck Airport
South Boston, Virginia
Applicator and Contractor

BENJAMIN WIMBERLEY TRUEBLOOD
206 Southern Blvd.
Rocky Mount, North Carolina
Applicator

JOSEPH C. TURNER
South Boston, Virginia
Applicator

ROBERT J. TURNER, JR.
Turner's Flying Service
543 Rowland Street
Henderson, North Carolina
Applicator and Contractor

VERNON VERGAL VAUDRIN
P. O. Box 63
Clinton, North Carolina
1101 South 7th Street
Minneapolis 4, Minnesota
Applicator and Contractor

ALBERT R. VAUGHAN
Al's Crop Spraying Service
Route 3
Virgilina, Virginia
Applicator and Contractor

GLENN WAIT
P. O. Box 231
Washington, North Carolina
Forest, Illinois
Applicator

BENNIE A. WALKER
Piedmont Aviation, Inc.
Winston-Salem, North Carolina
Applicator

GEORGE D. WALTERS
P. O. Box 84
Elizabeth City, North Carolina
Applicator and Contractor

H. C. WARF
Warf's Flying Service
Route #6
Reidsville, North Carolina
Applicator and Contractor

FRED WHITFIELD
Fred's Spray Service
Route 7
Burlington, North Carolina
Applicator and Contractor

ROBERT O. WHITFIELD
Whitfield Airplane Spraying
Hurdle Mills, North Carolina
Applicator and Contractor

JOHN H. WHITTINGTON
Eastway Drive
Charlotte, North Carolina
Applicator

DANIEL WEBSTER WILLIAMS
N. W. Boulevard
Clinton, North Carolina
Applicator

J. B. WILLIAMS, JR.
Rocky Mount, North Carolina
Applicator

YADKIN VALLEY, INC.
Route 1
Pfafftown, North Carolina
Contractor

JAMES C. YORK
Ramseur, North Carolina
Applicator

LONNIE YORK
Route 2, Box 203
Ramseur, North Carolina
Contractor

**Official Analyses
of
Economic Poisons
1960**

Summary of Economic Poisons Examined—1960

T Y P E S	S A M P L E S				
	Passed	Deficient	Excessive Active Ingredient	Misbranded	Not Registered
Arsenicals					
Arsenic Trioxide	17	9	2	—	—
Lead Arsenate	10	—	—	—	—
Paris Green	2	—	—	—	—
Sodium Arsenate	1	—	—	—	—
Sodium Arsenite	4	—	—	—	—
Arsenic with other materials	7	—	—	—	—
Organic Chlorine Compounds					
Aldrin preparations	20	7	—	—	—
Benzene Hexachloride	27	4	2	—	1
BHC-DDT preparations	45	5	1	—	—
BHC with other materials	6	3	—	—	—
Captan preparations	7	—	—	—	—
Chlordane preparations	75	2	—	—	1
Chloranil	1	—	—	—	—
2,4-D; 2,4,5-T Compounds	15	1	—	—	—
DD	1	—	—	—	—
DDD preparations	79	5	2	—	1
DDT	84	17	—	—	—
DDT with other materials	67	12	—	1	1
Decachlorotetracyclodecanone	1	—	—	—	—
Dieldrin preparations	17	2	—	—	—
Dimite	2	—	—	—	—
Dipterex	1	—	—	—	—
Endrin preparations	83	1	—	—	—
Ethylene Dichloride-Carbon Tetrachloride	1	—	—	—	—
Heptachlor	7	—	—	—	—
Methoxychlor preparations	56	15	—	—	1
Nemagon	2	2	—	—	—
Paradichlorobenzene	2	—	—	—	1
Pentachlorophenol	1	—	—	—	—
Perthane preparations	4	—	—	—	—
Terpene Polychlorinate preparations	3	—	—	—	—
Thiodan	2	—	—	—	—
Toxaphene preparations	109	7	1	—	—
Trithion	1	—	1	—	—
METALLIC COMPOUNDS					
Calcium Polysulfide	1	—	—	—	—
Copper preparations	8	1	—	—	—
DDVP	2	—	—	—	—
Diazinon	2	—	—	—	—
Guthion	2	—	—	—	—
Korlan	1	—	—	—	—
Malathion preparations	99	18	2	—	1
Metallic Dithiocarbamate preparations	18	5	—	—	—
Metallic Compounds					
Parathion preparations	6	—	—	—	—
Phosphorus	1	—	—	—	—
Thallium Sulfate	9	—	—	—	—
Botanicals					
Pyrethrin preparations	38	—	—	—	—
Rotenone preparations	93	27	—	1	2
Sabadilla	19	6	—	—	—

T Y P E S	S A M P L E S				
	Passed	Deficient	Excessive Active Ingredient	Mis-branded	Not Registered
Miscellaneous					
Boric Acid preparations	6	—	—	—	—
Carbon Bisulfide	—	—	—	1	—
Fluorine compounds	7	1	—	—	—
Fumarin	5	—	—	—	—
Lethane 384	1	—	—	—	—
MH-30	1	—	—	—	—
Naphthalene	1	—	—	—	—
Petroleum Oil	1	—	—	—	—
Phenol preparations	5	—	—	1	—
Pine Oil	1	—	—	—	—
Pival	3	—	—	—	—
Sevin	14	—	—	—	—
Sulfur	5	—	—	—	—
Warfarin	14	—	—	—	2
TOTALS	1123	150	11	4	11

Number manufacturers registered (total)	409
Number manufacturers registered from North Carolina	55
Number of items registered	3,186
Number stop sale orders issued	174

Decisions

The results of analyses of economic poisons are tabulated in the following pages. For the reader's ready interpretation of the analyses, designations used are explained in the following paragraphs.

"Passed" signifies that the labeling and composition of the product satisfactorily complied with guarantees and requirements. Small deviations in analyses are normal.

"Deficient" usually signifies that one or more ingredient fell significantly below guarantee, although it may also indicate an excess of a harmful ingredient, as in case of water-soluble arsenic. Such products, in most instances, qualify as unsatisfactory and are subject to "Stop Sale Order" and removal from the market for reprocessing or relabeling, in borderline cases, where exact values are indeterminate, the product is qualified as deficient but the manufacturer cautioned. In some instances where such goods have been used before analysis could be completed, the manufacturer has made settlement satisfactory to the user.

"Adulterated" indicates that significant quantities of undeclared active ingredients were present. Since proof of adulteration disqualifies a product, analysis may be discontinued at that point thus saving further expenditure of time and work. Such lots, batches or brands are stopped from sale and other appropriate action taken.

"Misbranded" signifies that labeling failed to conform to requirements. Omission of some item or statement is a more common flaw. Among these may be proper ingredient listing; skull and crossbones, "Poison" in red and an antidote where these are required; net contents by weight or volume; class of, and unsulfonated residues of petroleum oils; and percentages of alkaloids instead of crude product such as *sabadilla* seed.

In some instances of misbranding the defect appeared to be inadvertent or of a minor nature. It appeared permissible and fair to allow the manufacturer time for correction. In others, removal from sale was necessary.

"Not Registered" signifies that the product was not registered at the time it was sampled. Prompt registration is required or the product is removed from sale.

As has been the practice in past work, analyses were made largely for those ingredients which were considered of major importance, as, for example, gamma isomer of benzene hexachloride, whereas other isomers were not checked. For sake of brevity, items not generally checked are not listed in the tabulations. This should not be taken to indicate that manufacturers did not include them on labels. This procedure has been followed because it enables a broader coverage of all products offered for sale.

Official Analyses of Economic Poisons, 1960

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
ALDRIN			
Acme Fertilizer Company			
Acme 2½ % Aldrin Dust			
Aldrin	2.50	2.50	Passed
Acme Aldrin Special			
Aldrin	42.11	40.29	Passed
California Spray-Chemical Corporation (Now: California Chemical Company—Ortho Div.)			
Ortho 5% Aldrin Granular			
Aldrin	5.00	5.18	Passed
Carolina Chemicals, Inc.			
Flight Brand 10% Aldrin Equivalent Granular			
Aldrin	10.00	7.58	Deficient
Flight Brand 10% Aldrin Dust			
Aldrin	10.00	9.00	Deficient
Carter Insecticide and Chemical Company, Inc.			
Carolina 5% Aldrin Granular			
Aldrin	5.00	5.71	Passed
Carolina Aldrin Emulsion (4 Pounds)			
Aldrin	44.00	46.06	Passed
Coahoma Chemical Company, Inc.			
Red Panther Seed Guard			
Aldrin	20.00	19.14	Passed
Daly-Herring Company			
Dee Aitch Aldrin Emulsifiable Concentrate			
Aldrin	24.68	23.07	Deficient

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
Farmers Cooperative Exchange, Inc.			
FCX 10% Aldrin Granular			
Aldrin	10.00	9.50	Passed
FCX Aldrin Emulsifiable Concentrate			
Aldrin	23.31	25.30	Passed
Molony Fertilizer Company			
Lightning Brand Aldrin Emulsible Concentrate			
Aldrin	24.74	20.00	Deficient
Olin Mathieson Chemical Corporation			
Aldrin 2 lbs.			
Aldrin	24.50	24.91	Passed
Aldrin 2# Emulsifiable Concentrate			
Aldrin	24.53	25.13	Passed
do	24.53	26.61	Passed
do	24.53	25.33	Passed
W. R. Peele Company, Inc.			
Pelco 10% Aldrin Granulated			
Aldrin	10.00	9.64	Passed
Pelco 2 lb. Aldrin Emulsifiable Concentrate			
Aldrin	24.32	16.77	Deficient
do	24.50	23.73	Passed
do	24.50	25.56	Passed
Planters Chemical Corporation			
Planters 5% Aldrin Granular			
Aldrin	5.00	5.36	Passed
Planters Aldrin Emulsion Concentrate			
Aldrin	24.50	24.53	Passed
Southern Agricultural Chemicals, Inc.			
Royal Aldrin 5% Granular			
Aldrin	5.00	5.11	Passed

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
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ALDRIN—CAPTAN**California Spray-Chemical Corporation
(Now: California Chemical Company—Ortho Div.)****Ortho Bird Repellent and Seed Protectant**

Aldrin	20.00		Deficient
Captan	12.50		
Theoretical chlorine	16.06	15.21	

ALDRIN—DDT**Carolina Chemicals, Inc.****Flight Brand Aldrin DDT Dust**

Aldrin	2.50		Deficient
DDT	5.00		
Theoretical chlorine	4.13	3.89	

W. R. Peele Company, Inc.**Pelco 2½% Aldrin 5% DDT Dust**

Aldrin	2.50		Passed
DDT	5.00		
Theoretical Chlorine	3.95	4.80	

ALDRIN—DDT—ORGANIC THIOCYNATES**W. R. Peele Company, Inc.****Pelco Aerosol Spray Insecticide**

Aldrin	0.125		Passed
DDT	2.00		
Beta butoxy beta thiocyno diethyl ether	1.00	Present	
Theoretical Chlorine	1.07	1.22	

ARSENICALS**ARSENIC TRIOXIDE****M. A. Chapman and Son****Kill-Em Rat Poison**

Arsenic trioxide	2.00	1.70	Deficient
do	2.00	2.02	Passed
do	2.00	1.90	Passed
do	2.00	2.77	Passed
do	2.00	2.02	Passed
do	2.00	1.98	Passed
do	2.00	1.98	Passed
do	2.20	2.26	Passed
do	2.20	1.75	Deficient
do	2.20	2.04	Deficient

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
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S. L. Cowley and Sons Manufacturing Company

Cowley's Rat and Mouse Poison

Arsenic trioxide	1.75	2.11	Passed
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F. B. Singletary Jr. and Company

Singletary's Single Treatment Pest Control

Arsenic trioxide	3.50	2.84	Deficient
do	3.50	6.25	Excessive
			Active
do	3.50	6.40	Ingredient
			Excessive
			Active
			Ingredient
do	3.50	2.72	Deficient
do	3.50	2.07	Deficient
do	3.50	2.79	Deficient
do	3.50	3.45	Passed
do	3.50	2.61	Deficient
do	3.50	3.04	Deficient
do	3.50	3.51	Passed
do	3.50	4.26	Passed
do	3.50	4.00	Passed
do	3.50	3.80	Passed
do	3.50	3.40	Passed
do	3.50	5.51	Passed

Southern Chemical Company

Nok-Out-Bam

Arsenic trioxide	3.00	3.70	Passed
do	3.00	2.87	Passed

LEAD ARSENATE**Acme Quality Paints, Inc.**

Acme Arsenate of Lead

Lead arsenate	98.00		Passed
Arsenic as metallic	21.15	22.05	
Arsenic-water soluble (not more than)	0.50	0.49	
Lead as metallic	58.00	59.57	
Lead arsenate	98.00		Passed
Arsenic as metallic	21.15	23.00	
Arsenic-water soluble (not more than)	0.50	0.45	
Lead as metallic	58.00	59.20	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
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California Spray-Chemical Corporation
(Now: California Chemical Company—Ortho Div.)

Ortho Standard Lead Arsenate

Lead arsenate	95.00		Passed
Arsenic as metallic	20.50	21.22	
Arsenic-water soluble (not more than)	0.50	0.13	
Lead as metallic	56.70	58.58	

Chipman Chemical Company, Inc.

Chipman Hi-Test Lead Arsenate

Lead arsenate	98.00		Passed
Arsenic as metallic	21.00	21.44	
Arsenic-water soluble (not more than)	0.35	0.28	
Lead as metallic	58.00	57.59	

Miller Chemical and Fertilizer Corporation

Miller Arsenate of Lead—Powdered

Lead arsenate	97.00		Passed
Arsenic as metallic	20.00	20.80	
Arsenic-water soluble (not more than)	0.50	0.31	
Lead as metallic	58.00	59.72	

United Cooperatives, Inc.

(Registered by—Farmers Cooperative Exchange, Inc.)

Unico Arsenate of Lead

Lead arsenate	96.00		Passed
Arsenic as metallic	20.72	20.12	
Arsenic-water soluble (not more than)	0.50	0.09	
Lead as metallic	58.00	59.57	
Lead arsenate	96.00		Passed
Arsenic as metallic	20.72	21.43	
Arsenic-water soluble (not more than)	0.50	0.48	
Lead as metallic	58.00	58.93	
Lead arsenate	96.00		Passed
Arsenic as metallic	20.72	21.60	
Arsenic-water soluble (not more than)	0.50	0.25	
Lead as metallic	58.00	59.53	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
Woolfolk Chemical Works, Ltd.			
Security Brand Lead Arsenate			
Lead arsenate	97.00		Passed
Arsenic as metallic	20.90	22.13	
Arsenic-water soluble (not more than)	0.33	0.18	
Lead as metallic	57.80	58.70	
Lead arsenate	97.00		Passed
Arsenic as metallic	20.90	21.63	
Arsenic-water soluble (not more than)	0.33	0.09	
Lead as metallic	57.80	60.54	
PARIS GREEN			
Acme Quality Paints, Inc.			
Acme Paris Green			
Copper acetoarsenite	90.00		Passed
Arsenic as metallic	40.00	41.42	
Arsenic-water soluble (not more than)	2.70	1.66	
Copper as metallic	23.00	23.02	
Allied Chemical and Dye Corporation General Chemical Division			
Orchard Brand Paris Green			
Copper acetoarsenite	91.70		Passed
Arsenic as metallic	40.65	43.39	
Arsenic-water soluble (not more than)	2.70	2.68	
Copper as metallic	23.00	22.35	
SODIUM ARSENATE			
Harris Products Company, Inc.			
Ant Buttons			
Sodium arsenate	1.71	2.35	Passed
SODIUM ARSENATE			
Acme Quality Paints, Inc.			
Acme Weed Killer			
Sodium arsenite	42.50	42.93	Passed
California Spray-Chemical Corporation (Now: California Chemical Company—Ortho Div.)			
Ortho Triox			
Sodium arsenite	55.00	55.88	Passed

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
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**Nott Manufacturing Company, Inc.
Rose Manufacturing Division**

Fairmount Weed Killer

Sodium arsenite	35.00	33.85	Passed
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B. G. Pratt Company

Pratt's Weed Killer

Sodium arsenite	35.00	38.47	Passed
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ARSENIC—CAPTAN—DDT

United Cooperatives, Inc.

(Registered by—Farmers Cooperative Exchange, Inc.)

Unico General Purpose Fruit Spray Powder

Lead Arsenate	25.00		Passed
Arsenic as metallic	5.39	5.77	
Arsenic-water soluble (not more than)	0.50	0.22	
Captan	10.00		
DDT	10.00		
Theoretical Chlorine	8.54	8.50	
Lead arsenate	25.00		Passed
Arsenic as metallic	5.39	5.72	
Arsenic-water soluble (not more than)	0.50	0.22	
Captan	10.00		
DDT	10.00		
Theoretical Chlorine	8.54	8.14	

ARSENIC—COPPER

Woolfolk Chemical Works, Ltd.

Security Brand Tomato Dust

Calcium arsenate	60.00	60.07	Passed
Copper as metallic	7.00	7.26	

ARSENIC—COPPER—SULFUR—ZINC

Woolfolk Chemical Works, Ltd.

Pan Apple Spray

Lead arsenate	14.80		Passed
Arsenic as metallic	3.20	3.21	
Arsenic-water soluble (not more than)	0.20	0.17	
Lead as metallic	8.60	8.20	
Copper as metallic	3.50	3.95	
Sulfur	41.00	42.75	
Zinc as metallic	5.00	5.30	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
ARSENIC—METALDEHYDE			
California Spray-Chemical Corporation (Now: California Chemical Company—Ortho Div.)			
Ortho Bug-Geta Pellets			
Calcium arsenate	5.00	6.80	Passed
Metaldehyde	3.25	4.43	
Calcium arsenate	5.00	8.34	Passed
Metaldehyde	3.25	5.46	
ARSENIC—SULFUR—ZINC			
Woolfolk Chemical Works, Ltd.			
Pan Peach Spray			
Lead arsenate	11.50		Passed
Arsenic as metallic	2.40	2.42	
Arsenic-water soluble (not more than)	0.20	0.19	Passed
Sulfur	34.00	35.25	
Zinc as metallic	9.60	10.17	
BHC			
Allied Chemical and Dye Corporation General Chemical Division			
General Chemical 20% Lindane			
Gamma isomer of BHC	20.00	23.51	Passed
California Spray Chemical Corporation (Now: California Chemical Company—Ortho Div.)			
Ortho Louse, Tick and Flea Powder			
Gamma isomer of BHC	1.00	1.10	Passed
do	1.00	1.05	Passed
do	1.00	1.07	Passed
do	1.00	1.07	Passed
do	1.00	1.05	Passed
do	1.00	1.07	Passed
Ortho Isotox Transplanter Solution			
Gamma isomer of BHC	5.00	8.36	Excessive Active Ingredient
do	5.00	8.37	Excessive Active Ingredient
do	5.00	6.63	Passed
Isotox Lindane Spray (Liquid)			
Gamma isomer of BHC	12.90	13.85	Passed

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
Chemical Corporation of America			
Freewax Floor Wax Kills Bugs			
Gamma isomer of BHC	0.50	0.61	Passed
Farmers Cooperative Exchange, Inc.			
FCX 25% Lindane Wettable Spray Powder			
Gamma isomer of BHC	25.00	24.29	Passed
Dr. L. D. LeGear Medicine Company (Now: Dr. LeGear, Inc.)			
Dr. LeGear's Louse Powder			
Gamma isomer of BHC	1.00	1.02	Passed
do	1.00	1.00	Passed
do	1.00	0.95	Passed
do	1.00	1.10	Passed
do	1.00	1.12	Passed
do	1.00	0.98	Passed
do	1.00	1.02	Passed
do	1.00	1.07	Passed
Dr. LeGear's Roost Paint with Lindane			
Gamma isomer of BHC	1.25	1.37	Passed
Lethelin Products Company, Inc.			
Borerkil			
			Deficient, Not
Gamma isomer of BHC	2.00	1.26	Registered
Maxwell Insecticide Company, Inc.			
Maxwell Tobacco Transplant Liquid			
Gamma isomer of BHC	5.00	5.58	Passed
Olin Mathieson Chemical Corporation			
Mathieson Lindane 25% W. P.			
Gamma isomer of BHC	25.00	25.71	Passed
Quality Chemical Corporation			
Transplantox—Lindane Transplanter Solution			
Gamma isomer of BHC	5.00	4.14	Deficient
do	5.00	4.36	Deficient
do	5.00	3.83	Deficient

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
Ralston Purina Company			
Purina Mange Control			
Gamma isomer of BHC	6.50	6.21	Passed
Vineland Poultry Laboratories			
Vinelab Lindane 20%			
Gamma isomer of BHC	20.00	20.13	Passed
Weston Products Company			
Weskee Flea and Louse Powder			
Gamma isomer of BHC	1.00	1.28	Passed
Whitmoyer Laboratories, Inc.			
Whitmoyer BHC Roost Paint			
Gamma isomer of BHC	1.50	2.20	Passed
Woolfolk Chemical Works, Ltd.			
Benzex (Wettable Benzene Hexachloride)			
Gamma isomer of BHC	6.00	6.28	Passed
BHC—CAPTAN			
California Spray-Chemical Corporation (Now: California Chemical Company—Ortho Div.)			
Isotox 25 Seed Treater (F)			
Gamma isomer of BHC	25.00		Passed
Captan	12.50		
Theoretical chlorine	22.71	22.18	
Gamma isomer of BHC	25.00		Deficient
Captan	12.50		
Theoretical chlorine	22.71	21.54	
Gamma isomer of BHC	25.00		Passed
Captan	12.50		
Theoretical chlorine	22.71	22.18	
BHC—CAPTAN—KARATHANE—PIPERONYL BUTOXIDE—PYRETHRINS—ROTENONE			
Boyle-Midway, Inc.			
Antrol Push Button Multi-Purpose Rose Spray Flower Bomb			
Gamma isomer of BHC	1.00		Passed
Captan	0.50		

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
Antrol Push Button Rose Spray (Continued)			
Karathane	0.25		
Piperonyl butoxide	0.25	0.18	
Pyrethrins	0.025	0.034	
Rotenone	0.20	Present	
Theoretical Chlorine	0.90	1.12	
Theoretical nitrogen	0.04	0.07	
Gamma isomer of BHC	1.00		Passed
Captan	0.50		
Karathane	0.25		
Piperonyl butoxide	0.25	0.23	
Pyrethrins	0.025	0.18	
Rotenone	0.20	Present	
Theoretical chlorine	0.90	1.20	

BHC—CHLORANIL—PIPERONYL BUTOXIDE—PYRETHRINS
Polk Miller Products Corporation

Sergeant's Skip-Flea Scratch Powder

Gamma isomer of BHC	1.00		Deficient
Chloranil	5.00		
Piperonyl butoxide	0.45	0.59	
Pyrethrins	0.045	0.086	
Theoretical Chlorine	3.61	3.32	

BHC—2, 2' METHYLENE BIS (3, 4, 6 TRICHLOROPHENOL)—
2, 2 THIO BIS (4, 6 DICHLOROPHENOL)

Dr. LeGear, Inc.

Dr. LeGear's Flea and Tick Powder

Gamma isomer of BHC	1.00		Passed
2, 2' Methylene bis (3, 4, 6 trichlorophenol)	1.00		
2, 2' Thio bis (4, 6 dichlorophenol) ..	1.00		
Theoretical chlorine	1.65	1.77	

BHC—OVEX—PHALTAN—PYRETHRINS
Shulton, Inc.

Bridgeport Flower Guard

Gamma isomer of BHC	0.50		Passed
Ovex (p-chlorophenyl-p-chlorophenylene sulfonate)	0.125		
Phaltan (N-trichloromethyl thio-phthalimide)	0.50		
Pyrethrins	0.025	0.17	
Theoretical chlorine	0.58	0.59	

BHC—ZINEB

California Spray-Chemical Corporation
(Now: California Chemical Company—Ortho Div.)

Ortho Melon and Cucumber Dust or Spray

Gamma isomer of BHC	1.00	1.10	Deficient
Zinc ethylene bisdithiocarbamate	4.00	3.60	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
BHC—DDT			
California Spray-Chemical Corporation (Now: California Chemical Company—Ortho Div.)			
Ortho Volck Isotox Spray			
Gamma isomer of BHC	1.00		Passed
DDT	2.00		
Theoretical chlorine	173	1.83	
Ortho Gammicide 3-5 Cotton Dust			
Gamma isomer of BHC	3.00	3.69	Passed
DDT	5.00	5.93	
Gamma isomer of BHC	3.00	2.92	Passed
DDT	5.00	5.59	
Ortho BHC—DDT 3-10 Dust			
Gamma isomer of BHC	3.00	2.82	Deficient
DDT	10.00	9.50	
Gamma isomer of BHC	3.00	3.27	Passed
DDT	10.00	10.54	
Gamma isomer of BHC	3.00	3.14	Passed
DDT	10.00	10.39	
Gamma isomer of BHC	3.00	3.60	Passed
DDT	10.00	10.38	
Gamma isomer of BHC	3.00	3.14	Passed
DDT	10.00	10.12	
Ortho 1038 Screw Worm Control			
Gamma isomer of BHC	4.50		Passed
DDT	25.00		
Theoretical chlorine	15.79	16.33	
Carolina Chemicals, Inc.			
Flight Brand BHC—DDT Dust 3-5-0			
Gamma isomer of BHC	3.00	3.48	Passed
DDT	5.00	5.50	
Gamma isomer of BHC	3.00	2.91	Passed
DDT	5.00	6.14	
Farmers Cooperative Exchange, Inc.			
FCX 3-5-0 BHC and DDT Dust			
Gamma isomer of BHC	3.00	2.88	Passed
DDT	5.00	5.19	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
W. R. Grace and Company			
Davidson Chemical Division			
Naco Benny-Hex Cotton Dust 3-10—O-H			
Gamma isomer of BHC	3.00	3.37	Passed
DDT	10.00	9.85	
Molony Fertilizer Company			
Lightning Brand 3-5-0 BHC Cotton Dust			
Gamma isomer of BHC	3.00	2.81	Deficient
DDT	5.00	5.09	
Lightning Brand 3-10-0 BHC Cotton Dust			
Gamma isomer of BHC	3.00	3.33	Passed
DDT	10.00	10.54	
Olin Mathieson Chemical Corporation			
Mathieson BHC 3% DDT 10% Dust			
Gamma isomer of BHC	3.00	3.56	Passed
DDT	10.00	10.83	
W. R. Peele Company, Inc.			
Pelco 3-10 Cotton Dust			
Gamma isomer of BHC	3.00	2.90	Passed
DDT	10.00	10.29	
Ralston Purina Company			
Purina Stock Spray (Powder)			
Gamma isomer of BHC	2.50		Passed
DDT	25.00		
Theoretical chlorine	14.33	14.90	
Gamma isomer of BHC	2.50		Passed
DDT	25.00		
Theoretical chlorine	14.33	15.11	
Swift and Company			
Swift's Gold Bear Brand Insecticide Dust BD 3-5			
Gamma isomer of BHC	3.00	3.07	Passed
DDT	5.00	4.94	
Swift's Gold Bear Brand Insecticide Dust BD 3-10			
Gamma isomer of BHC	3.00	2.90	Passed
DDT	10.00	10.61	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
Taylor Chemical Company			
Superkill 3-5-0 Cotton Dust			
Gamma isomer of BHC	3.00	2.92	Passed
DDT	5.00	6.42	
Gamma isomer of BHC	3.00	2.94	Passed
DDT	5.00	5.40	
Gamma isomer of BHC	3.00	3.03	Passed
DDT	5.00	5.42	
Gamma isomer of BHC	3.00	3.32	Passed
DDT	5.00	5.47	
Taylor Chemical Company			
Superkill 3-10-0 Cotton Dust			
Gamma isomer of BHC	3.00	2.82	Deficient
DDT	10.00	10.03	
Gamma isomer of BHC	3.00	3.30	Passed
DDT	10.00	11.30	
Woolfolk Chemical Works, Ltd.			
Security Brand 3-5-0 Cotton Dust			
Gamma isomer of BHC	3.00	2.89	Passed
DDT	5.00	5.55	
Security Brand 3-10-0 Cotton Dust			
Gamma isomer of BHC	3.00	3.47	Passed
DDT	10.00	12.09	
BHC—DDT—ARAMITE—CAPTAN—DDD			
California Spray-Chemical Corporation (Now: California Chemical Company—Ortho Div.)			
Ortho Home Orchard Spray			
Gamma isomer of BHC	2.00	13.40	Passed
DDT	8.00		
Aramite	4.25		
Captan	12.50		
DDD	8.00		
Theoretical chlorine	13.88		
BHC—DDT—ARAMITE—SULFUR—ZINEB			
J. M. Harris and Company, Inc.			
Blue Dragon Flower Dust			
Gamma isomer of BHC	1.00	Passed	
DDT	5.00		

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
Blue Dragon Flower Dust (Continued)			
Aramite	1.50		
Sulfur	25.00	25.88	
Zinc ethylene bisdithiocarbamate ..	6.00	6.28	
Theoretical chlorine	3.39	3.40	
Gamma isomer of BHC	1.00		Passed
DDT	5.00		
Aramite	1.50		
Sulfur	25.00	26.20	
Zinc ethylene bisdithiocarbamate ..	6.00	6.48	
Theoretical chlorine	3.39	3.55	

BHC—DDT—ARAMITE—ZINEB**American Chemical Paint Company
(Now: Amchem Products, Inc.)**

ACP Rose and Floral Dust

Gamma isomer of BHC	1.00		Passed
DDT	5.00		
Aramite	1.50		
Zinc ethylene bisdithiocarbamate ..	3.90	4.04	
Theoretical chlorine	3.39	3.49	

**Diamond Alkali Company
(Now: Black Leaf Products Company)**

Rose Leaf Floral Dust

Gamma isomer of BHC	1.00		Excessive Active Ingredient
DDT	5.00		
Aramite	1.50		
Zinc ethylene bisdithiocarbamate ..	3.90	7.23	
Theoretical chlorine	3.39	3.40	

Maxwell Insecticide Company, Inc.

Maxwell Rose Dust for Roses and Ornamentals

Gamma isomer of BHC	1.00		Passed
DDT	5.00		
Aramite	1.50		
Zinc ethylene bisdithiocarbamate	6.00	6.06	
Theoretical chlorine	3.39	3.23	
Gamma isomer of BHC	1.00		Passed
DDT	5.00		
Aramite	1.50		
Zinc ethylene bisdithiocarbamate ..	6.00	5.79	
Theoretical chlorine	3.39	3.30	
Gamma isomer of BHC	1.00		Passed
DDT	5.00		
Aramite	1.50		
Zinc ethylene bisdithiocarbamate ..	6.00	6.06	
Theoretical chlorine	3.39	3.35	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
Maxwell Rose Dust (Continued)			
Gamma isomer of BHC	1.00		Passed
DDT	5.00		
Aramite	1.50		
Zinc ethylene bisdithiocarbamate ..	6.00	6.55	
Theoretical chlorine	3.39	3.35	

BHC—DDT—BORIC ACID—CHLORANIL**H. Clay Glover Company, Inc.**

Glovers Imperial Scratch Powder

Gamma isomer of BHC	1.00		Passed
DDT	0.50		
Boric acid	3.00	3.33	
Chloranil	5.00		
Theoretical chlorine	3.86	4.19	

BHC—DDT—CAPTAN—FERBAM—SULFUR**California Spray-Chemical Corporation**

(Now: California Chemical Company—Ortho Div.)

Ortho Rose Dust

Gamma isomer of BHC	1.00		Passed
DDT	5.00		
Captan	7.50		
Ferric dimethyl dithiocarbamate ..	3.50	3.68	
Sulfur	30.00	31.35	
Theoretical chlorine	5.89	7.20	
Gamma isomer of BHC	1.00		Passed
DDT	5.00		
Captan	7.50		
Ferric dimethyl dithiocarbamate	3.50	3.64	
Sulfur	30.00	30.88	
Theoretical chlorine	5.89	6.85	

BHC—DDT—FERBAM—SULFUR**Southern Agricultural Insecticides, Inc.**

SA—50 Brand Rose Dust

Gamma isomer of BHC	1.00		Passed
DDT	5.00		
Ferric dimethyl dithiocarbamate	6.50	6.49	
Sulfur	54.00	52.63	
Theoretical chlorine	3.23	3.26	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
BHC—DDT—PARATHION			
Taylor Chemical Company			
Superkill 3-10-1 Cotton Dust			
Gamma isomer of BHC	3.00	3.54	Passed
DDT	10.00	9.86	
Parathion	1.00	1.31	
Woolfolk Chemical Works, Ltd.			
Security Brand 3-10-2 Cotton Dust			
Gamma isomer of BHC	3.00	3.29	Passed
DDT	10.00	10.76	
Parathion	2.00	2.07	
BHC—DDT—PHALTAN—SULFUR			
California Spray-Chemical Corporation (Now: California Chemical Company—Ortho Div.)			
Ortho Rose Dust			
Gamma isomer of BHC	1.00		Passed
DDT	5.00		
Phaltan (N trichloromethyl thiopha- limide)	7.50		
Sulfur	30.00	31.33	
Theoretical chlorine	5.92	5.74	
BHC—DDT—ROTENONE			
Polk Miller Products Corporation			
Sergeant's Skip-Tick Powder			
Gamma isomer of BHC	1.00		Deficient
DDT	2.00		
Rotenone	0.80	0.45	
Theoretical chlorine	1.73	1.64	
BHC—DDT—SULFUR			
California Spray-Chemical Corporation (Now: California Chemical Company—Ortho Div.)			
Ortho Gammicide 3-5-40 Cotton Dust			
Gamma isomer of BHC	3.00	2.98	Deficient
DDT	5.00	5.67	
Sulfur	40.00	35.60	
Farmers Cooperative Exchange, Inc.			
FCX 3-5-40 BHC + DDT + Sulfur Dust			
Gamma isomer of BHC	3.00	3.15	Passed
DDT	5.00	5.34	
Sulfur	40.00	39.15	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
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Taylor Chemical Company

Superkill 3-5-40 Cotton Dust

Gamma isomer of BHC	3.00	3.12	Passed
DDT	5.00	5.27	
Sulfur	40.00	41.55	

Superkill 3-10-40 Cotton Dust

Gamma isomer of BHC	3.00	3.28	Passed
DDT	10.00	10.15	
Sulfur	40.00	40.30	

Woolfolk Chemical Works, Ltd.

Security Brand 3-5-40 Cotton Dust

Gamma isomer of BHC	3.00	3.10	Passed
DDT	5.00	6.49	
Sulfur	40.00	39.57	

BORIC ACID**Colonial Products, Inc.**

Colonial 23 Kills Roaches

Boric Acid	40.00	42.30	Passed
do	40.00	45.76	Passed

P. F. Harris Manufacturing Company, Inc.

Harris Famous Roach Tablets

Boric acid	40.00	44.59	Passed
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BORIC ACID—CHLORDANE**Heller Laboratories Inc.**

\$1000.00 Guaranteed Roach Killer

Boric acid	51.00	54.90	Passed
Chlordane	0.20	0.22	
Boric acid	51.00	49.47	Passed
Chlordane	0.20	0.28	

BORIC ACID—PIPERONYL CYCLONENE—PYRETHRINS**Meadows Chemicals, Inc.**

Jaygol-Kills Roaches

Boric acid	94.16	92.00	Passed
Piperonyl cyclonene	0.019	Present	
Pyrethrin	0.019	0.08	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
CAPTAN			
Acme Quality Paints, Inc.			
Acme Garden Fungicide			
Captan	30.00	29.15	Passed
California Spray-Chemical Corporation (Now: California Chemical Company—Ortho Div.)			
Orthocide 50 Wettable, 50% Captan			
Captan	50.00	51.43	Passed
do	50.00	49.28	Passed
do	50.00	54.28	Passed
Science Products Company			
Science Rose and Garden Fungicide			
Captan	41.00	43.42	Passed
Stauffer Chemical Company			
Stauffer Captan 50—W			
Captan	50.00	52.14	Passed
CAPTAN—PENTACHLORONITROBENZENE			
California Spray-Chemical Corporation (Now: California Chemical Company—Ortho Div.)			
Orthocide Soil Treater X			
Captan	10.00		Passed
Pentachloronitrobenzene	10.00		
Theoretical chlorine	9.54	9.29	
CHLORDANE			
Acme Quality Paints, Inc.			
Acme 6%Chlordane Dust for Ants			
Chlordane	6.00	6.39	Passed
do	6.00	6.17	Passed
Acme 45% Chlordane Spray			
Chlordane	45.00	45.52	Passed
Black Leaf Products Company			
Black Leaf Chlordane Dust			
Chlordane	10.00	10.22	Passed

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
California Spray-Chemical Corporation (Now: California Chemical Company—Ortho Div.)			
Ortho Klor 10 Chlordane Dust			
Chlordane	10.00	10.00	Passed
do	10.00	9.72	Passed
do	10.00	9.86	Passed
Ortho Klor 44 Chlordane Spray			
Chlordane	44.00	45.12	Passed
Chlordane	44.00	45.34	Passed
Ortho Chlordane 8 Emulsive			
Chlordane	72.00	73.98	Passed
Carbola Chemical Company, Inc.			
Carbola 6% Chlordane Dust			
Chlordane	6.00	7.03	Passed
do	6.00	6.09	Passed
do	6.00	6.69	Passed
do	6.00	6.86	Passed
Cook Chemical Company			
Real Kill Moth Proofer			
Chlordane	2.00	2.14	Passed
do	2.00	2.29	Passed
The d-Con Company			
d-Con Roach Prufe Special Formula RP-200			
Chlordane	2.00	2.28	Passed
E. I. duPont de Nemours and Company			
Du Pont 6% Chlordane			
Chlordane	6.00	6.00	Passed
Farmers Cooperative Exchange, Inc.			
FCX 5% Chlordane Dust			
Chlordane	5.00	4.86	Passed
do	5.00	4.75	Passed
50% Wettable Chlordane			
Chlordane	50.00	50.00	Passed
do	50.00	50.71	Passed

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
Graham Chemical Company			
Red Star Ant Dust			
Chlordane	6.00	6.77	Passed
Maxwell Insecticide Company, Inc.			
Maxwell 5% Chlordane Dust			
Chlordane	5.00	4.96	Passed
National Carbon Company (Now: Union Carbide Corporation)			
Eveready 6% Chlordane Ant Killer			
Chlordane	6.00	6.26	Passed
Eveready Lawn Insect Killer			
Chlordane	72.00	73.60	Passed
Planters Chemical Corporation			
Planters 40% Wettable Chlordane			
Chlordane	40.00	36.57	Deficient
Quality Chemical Corporation			
Chlordane Emulsifiable Concentrate			
Chlordane	72.00	59.09	Deficient
Rigo Manufacturing Company, Inc.			
Kill Ko 45% Chlordane			
Chlordane	45.00	45.44	Passed
Science Products Company			
Science 6% Chlordane Dust for Ants			Not
Chlordane	6.00	5.83	Registered
Southern Agricultural Insecticides, Inc.			
SA-50 Brand 10% Chlordane Dust			
Chlordane	10.00	10.79	Passed
do	10.00	10.00	Passed
Swift and Company			
End-O-Pest Lawn Insect Killer Hose Spray (Liquid)			
Chlordane	45.00	45.38	Passed
do	45.00	45.22	Passed

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
Taylor Chemical Company			
Superkill 10% Granular Chlordane			
Chlordane	10.00	10.86	Passed
Superkill 72% Emulsifiable Concentrate Chlordane			
Chlordane	72.00	71.69	Passed
United Cooperatives, Inc. (Registered by—Farmers Cooperative Exchange, Inc.)			
Unico Chlordane Dust			
Chlordane	6.00	7.29	Passed
do	6.00	5.74	Passed
do	6.00	6.00	Passed
Unico Chlordane Emulsifiable Concentrate			
Chlordane	45.00	44.57	Passed
Woolfolk Chemical Works, Ltd.			
Security Brand 5% Chlordane Dust			
Chlordane	5.00	5.07	Passed
Security Brand 10% Chlordane Granular			
Chlordane	10.00	10.14	Passed
CHLORDANE—BHC			
Esso Standard Oil Company (Now: Penola Oil Company)			
Flit Bug Killer with Aromin			
Chlordane	2.00		Passed
Gamma isomer of BHC	0.05		
Theoretical chlorine	1.32	1.32	
Chlordane	2.00		Passed
Gamma isomer of BHC	0.05		
Theoretical chlorine	1.32	1.38	
CHLORDANE—DDT			
Science Products Company			
Science Fogger Insecticide			
Chlordane	3.00		Passed
DDT	3.00		
Theoretical chlorine	3.42	3.37	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
Union Drug Company (Now: Walgreen Laboratories, Inc.)			
Dolph Ant and Roach Spray			
Chlordane	2.00		Passed
DDT	0.50		
Theoretical chlorine	1.53	1.48	

CHLORDANE—DIAZINON—PIPERONYL BUTOXIDE—PYRETHRINS**Hot Shot Quality Products, Inc.**

Hot Shot New Diazinon Pressurized Bug Killer

Chlordane	1.00	1.11	Passed
O, O-diethyl O-(2-isopropyl-4-methyl-6-pyrimidinyl) phosphorothioate	0.333		
Piperonyl butoxide	0.09	0.10	
Pyrethrins	0.06	0.08	
N-octylbicyclo (2, 2, 1)-5-heptene-2, 3-dicarboximide	0.15		
Theoretical nitrogen	0.038	0.06	
Chlordane	1.00	1.03	Passed
O, O-diethyl O-(2 isopropyl-4-methyl-6-pyrimidinyl) phosphorothioate	0.333		
Piperonyl butoxide	0.09	0.084	
Pyrethrins	0.06	0.082	
N-octylbicyclo (2, 2, 1)-5-heptene-2-3-dicarboximide	0.15		
Theoretical nitrogen	0.038	0.05	
Chlordane	1.00	1.10	Passed
O, O-diethyl O-(2 isopropyl-4-methyl-6-pyrimidinyl) phosphorothioate	0.333		
Piperonyl butoxide	0.09	0.09	
Pyrethrins	0.06	0.12	
N-octylbicyclo (2, 2, 1)-5-heptene-2-3-dicarboximide	0.15		
Theoretical nitrogen	0.038	0.047	
Chlordane	1.00	1.22	Passed
O, O-diethyl O-(2 isopropyl-4-methyl-6-pyrimidinyl) phosphorothioate	0.333		
Piperonyl butoxide	0.09	0.09	
Pyrethrins	0.06	0.10	
N-octylbicyclo (2, 2, 1)-5-heptene-2-3-dicarboximide	0.15		
Theoretical nitrogen	0.038	0.035	
Chlordane	1.00	0.95	Passed
O, O-diethyl O-(2 isopropyl-4-methyl-6-pyrimidinyl) phosphorothioate	0.333		
Piperonyl butoxide	0.09	0.09	
Pyrethrins	0.06	0.06	
N-octylbicyclo (2, 2, 1)-5-heptene-2-3-dicarboximide	0.15		
Theoretical nitrogen	0.038	0.045	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
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CHLORDANE—DIELDRIN
California Spray-Chemical Corporation
 (Now: California Chemical Company—Ortho Div.)
Ortho Ant Powder

Chlordane	2.50		Passed
Dieldrin	0.50		
Theoretical chlorine	1.88	2.32	
Chlordane	2.50		Passed
Dieldrin	0.50		
Theoretical chlorine	1.88	2.13	
Chlordane	2.50		Passed
Dieldrin	0.50		
Theoretical chlorine	1.88	2.18	
Chlordane	2.50		Passed
Dieldrin	0.50		
Theoretical chlorine	1.88	2.16	

CHLORDANE—MALATHION**Pearson and Company****Pearson's Waterbug and Roach Killer**

Chlordane	3.00	3.61	Passed
Malathion	5.00	4.94	

CHLORDANE—MALATHION—PIPERONYL BUTOXIDE—PYRETHRINS**Ralston Purina Company****Purina Roach Bomb**

Chlordane	1.00	1.13	Passed
Malathion	1.00	1.26	
Piperonyl butoxide	0.10	0.08	
Pyrethrins	0.05	0.20	
Chlordane	1.00	1.07	Passed
Malathion	1.00	1.11	
Piperonyl butoxide	0.10	0.06	
Pyrethrins	0.05	0.09	
Chlordane	1.00	1.13	Passed
Malathion	1.00	1.07	
Piperonyl butoxide	0.10	0.06	
Pyrethrins	0.05	0.06	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
United Cooperatives, Inc. (Registered by—Farmers Cooperative Exchange, Inc.)			
Unico Ant & Roach Killer			
Chlordane	2.00	2.00	Passed
Malathion	1.00	1.27	
Piperonyl butoxide	0.20	0.20	
Pyrethrins	0.02	0.17	
Chlordane	2.00	1.94	Passed
Malathion	1.00		
Piperonyl butoxide	0.20	0.20	
Pyrethrins	0.02	0.12	
Chlordane	2.00	2.04	Passed
Malathion	1.00	0.95	
Piperonyl butoxide	0.20	0.15	
Pyrethrins	0.02	0.13	
Chlordane	2.00	2.04	Passed
Malathion	1.00	1.08	
Piperonyl butoxide	0.20	0.19	
Pyrethrins	0.02	0.11	

CHLORDANE—ORGANIC THIOCYANATES—PIPERONYL BUTOXIDE—PYRETHRINS

Rigo Manufacturing Company, Inc.

Kill-Ko Quick Kill Insect Bomb

Chlordane	2.10	2.08	Passed
Beta butoxy beta thiocyno diethyl ether	1.06	1.44	
Piperonyl butoxide	0.05	0.05	
Pyrethrins	0.02	0.05	

CHLORDANE—ORGANIC THIOCYANATES

Swift and Company

End-O-Pest Ant and Lawn Insect Dust

Chlordane	8.00	7.71	Passed
Lethane 384 Special	1.00	Present	
Chlordane	8.00	7.94	Passed
Lethane 384 Special	1.00	Present	

CHLORDANE—PIPERONYL BUTOXIDE—PYRETHRINS

Amsco Chemical Company

Hot Shot Bug Killer

Chlordane	2.00	1.94	Passed
Piperonyl butoxide	0.188	0.16	
Pyrethrins	0.075	0.11	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
Colgate-Palmolive Company			
Kan-Kill Roach and Ant Killer			
Chlordane	2.00	2.03	Passed
Piperonyl butoxide	0.092	0.12	
Pyrethrins	0.046	0.057	
Chlordane	2.00	2.06	Passed
Piperonyl butoxide	0.092	0.10	
Pyrethrins	0.046	0.091	
S. C. Johnson and Son, Inc.			
Raid Roach and Ant Killer			
Chlordane	2.00	2.11	Passed
Piperonyl butoxide	0.09	0.08	
Pyrethrins	0.045	0.06	
Chlordane	2.00	2.06	Passed
Piperonyl butoxide	0.09	0.08	
Pyrethrins	0.045	0.09	
Chlordane	2.00	2.01	Passed
Piperonyl butoxide	0.09	0.07	
Pyrethrins	0.045	0.06	
W. R. Peele Company, Inc.			
Pelco Roach and Ant Spray			
Chlordane	2.00	2.19	Passed
Piperonyl butoxide	0.115	0.11	
Pyrethrins	0.046	0.07	
Chlordane	2.00	2.09	Passed
Piperonyl butoxide	0.115	0.12	
Pyrethrins	0.046	0.09	
Chlordane	2.00	2.20	Passed
Piperonyl butoxide	0.115	0.12	
Pyrethrins	0.046	0.07	
CHLORDANE—PYRETHRINS			
C-B Drug Company			
Double Action Insect Spray			
Chlordane	2.00	2.55	Passed
Pyrethrins	0.034	0.15	
Gulf Oil Corporation			
Gulf Ant and Roach Bomb			
Chlordane	2.00	2.09	Passed
Pyrethrins	0.08	0.08	
Chlordane	2.00	1.96	Passed
Pyrethrins	0.08	0.08	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
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COPPER**Carbola Chemical Company, Inc.**

CCC Copper Dust

Copper as metallic	6.00	5.82	Passed
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Southern Agricultural Insecticides, Inc.

SA-50 Brand Tomato Dust

Copper as metallic	7.00	7.20	Passed
do	7.00	7.40	Passed
do	7.00	7.21	Passed
do	7.00	7.47	Passed
do	7.00	7.18	Passed
do	7.00	7.18	Passed

United Cooperatives, Inc.

(Registered by—Farmers Cooperative Exchange, Inc.)

Unico Copper Fungicide

Copper as metallic	53.00	51.72	Passed
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COPPER—ZINC**Woolfolk Chemical Works, Ltd.**

Security Brand Copper-Zinc Spray

Copper as metallic	12.50	11.40	Deficient
Zinc as metallic	10.00	9.50	

2, 4-D COMPOUNDS**California Spray-Chemical Corporation**

(Now: California Chemical Company—Ortho Div.)

Ortho 2, 4-D Amine

Dimethylamine salt of 2, 4-D	49.40	50.53	Passed
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The Dow Chemical Company

Dow Esteron 99

Propylene glycol (C_3H_8O to $C_6H_{12}O_3$) butyl ether ester of 2, 4-D	38.00	38.94	Passed
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2-4 Dow Weed Killer—Formula 40

Alkanolamine salts of 2, 4-D	65.00	39.94	Passed
2, 4-D equivalent	39.00		
Alkanolamine salts of 2, 4-D	65.00	41.44	Passed
2, 4-D equivalent	39.00		

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
E. I. du Pont de Nemours and Company			
Du Pont Lawn Weed Killer			
Dimethylamine 2, 4-D Acetate	13.90	15.63	Passed
Olin Mathieson Chemical Corporation			
Isopropyl Ester D 334 Weed Killer			
Isopropyl Ester of 2, 4-D	44.00	49.26	Passed
Reasor-Hill Corporation			
R-H Granular 2, 4-D Weed Rhap-20			
Iso-octyl (2-ethyl hexyl) ester 2, 4-D	30.12	31.99	Passed
Sears, Roebuck and Company			
Cross Country Weedeath			
Mixed isopropyl and triethyl amine salts 2, 4-D	18.94	13.21	Deficient
2, 4-D equivalent	14.00		
United Cooperatives, Inc. (Registered by—Farmers Cooperative Exchange, Inc.)			
Unico 2, 4-D Amine Weed Killer			
Dimethyl amine salt of 2, 4-D	49.00	51.03	Passed
do	49.00	49.91	Passed
Unico Lawn Weed Killer			
Dimethylamine salt of 2, 4-D	49.50	51.66	Passed
2, 4-D AND SILVEX COMPOUNDS			
Amchem Products, Inc.			
Amchem Weedone Lawn Weed Killer			
Butoxy ethanol ester of 2, 4-D	9.06	10.35	Passed
Butoxy ethanol ester of silvex	4.26		
2, 4-D equivalent	8.79		
2,4-D and 2, 4, 5-T COMPOUNDS			
Boyle-Midway, Inc.			
Antrol Squeeze 'N Weed Killer			
Alkanolamine salts of ethanol and isopropyl series 2, 4-D	0.60	0.56	Passed
Triethylamine salts of 2, 4, 5-T	0.40		
Theoretical phenoxyacetic acid	0.42		

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
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California Spray-Chemical Corporation
(Now: California Chemical Company—Ortho Div.)

Improved Weed-B-Gon

Tetra hydrofurfuryl ester of 2, 4-D	13.80		Passed
Tetra hydrofurfuryl ester of 2, 4, 5-T	6.60		
Theoretical phenoxyacetic acid	9.85	10.29	
Tetra hydrofurfuryl ester of 2, 4-D	13.80		Passed
Tetra hydrofurfuryl ester of 2, 4, 5-T	6.60		
Theoretical phenoxyacetic acid	9.85	10.74	

United Cooperatives, Inc.
(Registered by—Farmers Cooperative Exchange, Inc.)

Unico Brush Killer

Butyl ester of 2, 4-D	29.30		Passed
Butyl ester of 2, 4, 5-T	14.20		
Theoretical phenoxyacetic acid	23.02	22.90	

DDD

Acme Fertilizer Company

Acme TDE Emulsion

DDD	24.00	25.83	Passed
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California Spray Chemical Corporation
(Now: California Chemical Company—Ortho Div.)

Ortho TDE 2 Emulsive

DDD	23.30	24.46	Passed
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Orthene 3D2 Spray

DDD	25.00	22.34	Deficient
do	25.00	24.20	Passed

Ortho TDE 2 Spray

DDD	25.00	24.78	Passed
do	25.00	24.94	Passed
do	25.00	25.38	Passed

Orthene 3D 50 Wettable—50% DDD (3D)

DDD	50.00	51.43	Passed
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Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
Cape Fear Chemicals, Inc.			
Tiger Brand 10% TDE Tobacco Dust			
DDD	10.00	10.07	Passed
Tiger Brand 25% TDE Rhothane Emulsion Concentrate			
DDD	25.00	24.83	Passed
do	25.00	25.44	Passed
do	25.00	24.95	Passed
do	25.00	24.74	Passed
do	25.00	28.50	Passed
do	25.00	15.51	Deficient
Carolina Chemicals, Inc.			
Flight Brand 10% Rhothane Dust			
DDD	10.00	9.86	Passed
Carter Insecticide and Chemical Company, Inc.			
25% TDE Emulsion			
DDD	25.00	26.16	Passed
do	25.00	26.09	Passed
do	25.00	26.22	Passed
do	25.00	25.87	Passed
do	25.00	28.00	Passed
do	25.00	26.42	Passed
Daly-Herring Company			
Bacco 10% TDE Dust			
DDD	10.00	10.36	Passed
do	10.00	11.57	Passed
Bacco Spray Emulsifiable Concentrate			
DDD	23.76	26.08	Passed
do	23.76	25.77	Passed
do	23.76	25.27	Passed
do	23.76	24.41	Passed
do	23.76	24.19	Passed
do	23.76	24.23	Passed
Farmers Cooperative Exchange, Inc.			
FCX 10% TDE Dust			
DDD	10.00	10.22	Passed
FCX TDE Emulsifiable Concentrate			
DDD	23.90	22.83	Passed

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
Graham Chemical Company			
Red Star Tobacco Spray Concentrate 25% TDE Emulsifiable			
DDD	25.00	24.49	Passed
Maxwell Insecticide Company, Inc.			
Maxwell Emulsion Concentrate 25% Rhathane			
DDD	25.00	23.74	Deficient
do	25.00	23.88	Passed
do	25.00	24.70	Passed
Molony Fertilizer Company			
Lightning Brand TDE Emulsible Concentrate			
DDD	23.80	23.93	Passed
Olin Mathieson Chemical Corporation			
Mathieson 10% Rhothane (TDE) Dust			
DDD	10.00	9.57	Passed
TDE (DDD) 25% Emulsifiable Concentrate			
DDD	25.00	25.07	Passed
da	25.00	26.72	Passed
do	25.00	25.01	Passed
da	25.00	26.94	Passed
do	25.00	26.88	Passed
W. R. Peele Company, Inc.			
Pelca Rhathane Tobacco Dust			
DDD	10.00	10.14	Passed
do	10.00	9.86	Passed
da	10.00	10.00	Passed
do	10.00	9.86	Passed
do	10.00	10.14	Passed
Pelco Tobacco Spray, TDE Emulsifiable Concentrate			
DDD	23.75	24.92	Passed
do	23.75	24.14	Passed
do	23.75	23.99	Passed
do	23.75	23.98	Passed
da	23.75	23.50	Passed
da	23.75	23.62	Passed
Planters Chemical Corporation			
Planters 10% TDE Dust			
DDD	10.00	12.79	Passed
do	10.00	9.72	Passed

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
Quality Chemical Corporation			
Champion 10% TDE Dust			
DDD	10.00	10.07	Passed
do	10.00	9.72	Passed
do	10.00	11.00	Passed
Tobacco Spray Rhothane Emulsible Concentrate			
DDD	23.98	36.19	Excessive Active Ingredient
do	23.98	22.94	Passed
do	23.98	22.90	Passed
do	23.98	22.92	Passed
do	23.98	24.21	Passed
Southern Agricultural Chemicals, Inc.			
Royal Brand Rhothane Spray Concentrate			
DDD	23.80	25.49	Passed
do	23.80	24.48	Passed
do	23.80	25.42	Passed
Swift and Company			
Swifts Gold Bear Brand Insecticide Dust H 10			
DDD	10.00	10.00	Passed
do	10.00	10.00	Passed
United Cooperatives, Inc. (Registered by—Farmers Cooperative Exchange, Inc.)			
Unico TDE Emulsifiable Concentrate			
DDD	23.90	23.85	Passed
Woolfolk Chemical Works, Ltd.			
Security Brand 25% 3 D's Emulsifiable Concentrate			
DDD	25.00	25.01	Passed
DDD—COPPER			
Stephenson Chemical Company			
Stephenson Tomato Dust			
DDD	5.00	9.65	Excessive Active Ingredient
Copper as metallic	3.50	4.34	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
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DDD—DIELDRIN**Carter Insecticide and Chemical Company, Inc.**

Carolina Brand Tobacco Poison

DDD	25.00		Passed
Dieldrin	6.20		
Theoretical chlorine	14.53	13.84	
DDD	25.00		Passed
Dieldrin	6.20		
Theoretical chlorine	14.53	14.96	
DDD	25.00		Passed
Dieldrin	6.20		
Theoretical chlorine	14.53	15.20	

Quality Chemical Corporation

Hopper and Worm Spray

DDD	24.71		Passed
Dieldrin	2.31		
Theoretical chlorine	12.23	11.80	

Rigo Manufacturing Company, Inc.

Kill-Ko Tobacco Spray

DDD	25.00		Not Registered
Dieldrin	2.34		
Theoretical chlorine	12.37	12.20	

DDD—ENDRIN**Quality Chemical Corporation**

Tobacco Special

DDD	16.50		Passed
Endrin	6.50		
Theoretical chlorine	10.94	10.54	

DDD—PARATHION**Cape Fear Chemicals, Inc.**

Tiger Brand Triple Quick 1-10 Tobacco Dust

DDD	10.00	9.72	Passed
Parathion	1.00	1.09	
DDD	10.00	10.48	Passed
Parathion	1.00	1.05	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
California Spray-Chemical Corporation (Now: California Chemical Company—Ortho Div.)			
Ortho Parathion TDE 1-10 Dust			
DDD	10.00	9.64	Passed
Parathion	1.00	0.95	
Daly-Herring Company			
Bacco 10% TDE 1% Parathion Dust			
DDD	10.00	10.22	Passed
Parathion	1.00	1.01	
Maxwell Insecticide Company, Inc.			
Maxwell 10-1% Tobacco Dust			
DDD	10.00	10.00	Passed
Parathion	1.00	1.33	
Olin Mathieson Chemical Corporation			
Tobacco Dust—10% Rhothane 1% Parathion			
DDD	10.00	9.43	Deficient
Parathion	1.00	1.06	
Tobacco Dust 10% Rhothane 2% Parathion			
DDD	10.00	9.43	Deficient
Parathion	2.00	1.77	
Molony Fertilizer Company			
Lightning Brand 1-10 Tobacco Dust			
DDD	10.00	9.64	Passed
Parathion	1.00	1.00	
Southern Agricultural Chemicals, Inc.			
Royal Brand 10% Rhothane 1% Parathion			
DDD	10.00	10.14	Passed
Parathion	1.00	1.47	
DDT			
Acme Quality Paints, Inc.			
Acme 5%DDT Dust			
DDT	5.00	4.96	Passed
Acme Dura Dust #50 (50% Wettable Dust)			
DDT	50.00	53.57	Passed
do	50.00	50.00	Passed

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
California Spray-Chemical Corporation (Now: California Chemical Company—Ortho Div.)			
Ortho DDT Dust			
DDT	10.00	9.86	Passed
Ortho DDT 50 Wettable			
DDT	50.00	48.57	Passed
do	50.00	50.71	Passed
C-B Drug Company			
DDT Insect Spray			
DDT	5.00	6.78	Passed
Cape Fear Chemicals, Inc.			
Tiger Brand 5% DDT Dust			
DDT	5.00	4.89	Passed
do	5.00	5.04	Passed
do	5.00	5.14	Passed
do	5.00	5.00	Passed
Tiger Brand 10% DDT Dust			
DDT	10.00	9.90	Passed
do	10.00	9.72	Passed
do	10.00	9.43	Deficient
do	10.00	9.43	Deficient
Tiger Brand 25% DDT Emulsion Concentrate			
DDT	25.00	29.91	Passed
Carbola Chemical Company, Inc.			
CCC 5% DDT Garden Dust			
DDT	5.00	5.63	Passed
CCC Powder (Contains 10% DDT)			
DDT	10.00	10.50	Passed
Carter Insecticide and Chemical Company, Inc.			
Carolina Brand 25% DDT Emulsion Concentrate			
DDT	25.00	25.49	Passed
do	25.00	24.72	Passed
do	25.00	25.23	Passed
do	25.00	25.24	Passed

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
Corona Chemical Division (Pittsburgh Plate Glass Company)			
Corona Micronized 50% DDT			
DDT	50.00	50.00	Passed
Daly-Herring Company			
Dee Aitch DDT Dust			
DDT	5.00	4.89	Passed
Dee Aitch 10% DDT Dust			
DDT	10.00	9.93	Passed
Dee Aitch 25% DDT Emulsifiable Concentrate			
DDT	25.00	24.80	Passed
do	25.00	24.97	Passed
do	25.00	24.21	Passed
do	25.00	26.22	Passed
do	25.00	25.29	Passed
Farmers Cooperative Exchange, Inc.			
FCX 5% DDT Dust			
DDT	5.00	4.57	Deficient
do	5.00	5.04	Passed
FCX 10% DDT Dust			
DDT	10.00	10.00	Passed
do	10.00	10.36	Passed
do	10.00	9.50	Passed
do	10.00	8.79	Deficient
FCX 20% Dust			
DDT	20.00	19.14	Passed
do	20.00	19.72	Passed
FCX 50% Wettable Powder			
DDT	50.00	50.71	Passed
do	50.00	50.00	Passed
Graham Chemical Company			
Graham's Red Star Agricultural 5% DDT Dust			
DDT	5.00	4.86	Passed
do	5.00	5.18	Passed
Hopkins Agricultural Chemical Company			
Hopkins 10% DDT Dust			
DDT	10.00	9.29	Deficient

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
Maxwell Insecticide Company, Inc.			
Maxwell 10% DDT Dust			
DDT	10.00	9.86	Passed
do	10.00	10.29	Passed
Maxwell 25% DDT Emulsion Concentrate			
DDT	25.00	24.08	Passed
do	25.00	25.03	Passed
Maxwell 50% Wettable DDT			
DDT	50.00	48.93	Passed
Molony Fertilizer Company			
Lightning Brand 10% DDT Dust			
DDT	10.00	9.50	Passed
Olin Mathieson Chemical Corporation			
Mathieson DDT 10% Dust			
DDT	10.00	9.14	Deficient
Mathieson DDT 2 lbs. Emulsifiable Concentrate			
DDT	25.00	26.39	Passed
do	25.00	24.28	Passed
do	25.00	27.54	Passed
do	25.00	23.98	Passed
W. R. Peele Company, Inc.			
Pelco 5% DDT Dust			
DDT	5.00	4.93	Passed
do	5.00	5.32	Passed
do	5.00	5.14	Passed
Pelco 10% DDT Dust			
DDT	10.00	9.50	Passed
do	10.00	9.57	Passed
do	10.00	9.57	Passed
do	10.00	10.00	Passed
Pelco DDT Emulsifiable Concentrate			
DDT	23.76	22.97	Passed
do	23.76	23.32	Passed
do	23.76	23.91	Passed
do	23.76	25.57	Passed
do	23.76	22.77	Passed
do	23.76	24.07	Passed
do	23.76	22.87	Passed
do	23.76	22.53	Deficient

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
Pennsylvania Salt Manufacturing Company (Now: Pennsalt of Washington Div., Pennsalt Chemical Corp.)			
Penco DDT W-50			
DDT	50.00	48.93	Passed
Planters Chemical Corporation			
Planters 10% DDT Dust			
DDT	10.00	9.72	Passed
Planters DDT 2 lbs. Emulsifiable Concentrate			
DDT	23.80	22.93	Passed
Quality Chemical Corporation			
5% DDT DUST			
DDT	5.00	5.29	Passed
do	5.00	4.14	Deficient
10% DDT Dust			
DDT	10.00	10.72	Passed
do	10.00	8.86	Deficient
DDT Emulsifiable Concentrate			
DDT	23.98	23.36	Passed
do	23.98	22.79	Passed
do	23.98	22.72	Deficient
do	23.98	22.59	Deficient
do	23.98	22.67	Deficient
Ralston Purina Company			
Purina DDT Insecticide 75% DDT Wettable Powder			
DDT	75.00	76.05	Passed
do	75.00	72.84	Passed
Smith Seed and Feed Company			
Old Belt Tobacco Flea Beetle Dust (5% DDT)			
DDT	5.00	3.96	Deficient
Southern Agricultural Insecticides, Inc.			
SA-50 Brand 5% DDT Dust			
DDT	5.00	5.11	Passed
do	5.00	4.79	Passed

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
SA-50 Brand 10% DDT Dust			
DDT	10.00	9.43	Deficient
do	10.00	10.86	Passed
do	10.00	10.00	Passed
do	10.00	11.00	Passed
do	10.00	10.57	Passed
do	10.00	9.58	Passed
do	10.00	10.54	Passed
do	10.00	9.36	Deficient
do	10.00	9.29	Deficient
do	10.00	10.57	Passed
do	10.00	9.36	Deficient
do	10.00	10.86	Passed

SA-50 Brand 50% DDT Spray Wettable Concentrate

DDT	50.00	49.28	Passed
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United Cooperatives, Inc.

(Registered by—Farmers Cooperative Exchange, Inc.)

Unico DDT Emulsion Concentrate

DDT	24.00	24.38	Passed
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Woolfolk Chemical Works, Ltd.

Security Brand 10% DDT Dust

DDT	10.00	10.00	Passed
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DDT—ALLETHRIN—ORGANIC THIOCYANATES**C-B Drug Company**

Fly and Mosquito Killer

DDT	2.00	2.16	Passed
Allethrin	0.10	Present	
Beta butoxy beta thiocyno diethyl ether	1.06	Present	Passed
DDT	2.00	2.25	
Allethrin	0.10	Present	
Beta butoxy beta thiocyno diethyl ether	1.06	Present	

Colonial Stores, Inc.

(Registered by—Stalfort Pressure-Pak, Inc.)

3 D Insecticide Aerosol Spray

DDT	2.00	Present	Passed
Allethrin	0.125		
Beta butoxy beta thiocyno diethyl ether	1.00	Present	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
3 D Insecticide Aerosol Spray (Continued)			
DDT	2.00	2.23	Passed
Allethrin	0.125	Present	
Beta butoxy beta thiocyno diethyl ether	1.00	Present	
DDT	2.00	2.04	Passed
Allethrin	0.125	Present	
Beta butoxy beta thiocyno diethyl ether	1.00	Present	
DDT	2.00	1.98	Passed
Allethrin	0.125	Present	
Beta butoxy beta thiocyno diethyl ether	1.00	Present	
DDT	2.00	2.17	Passed
Allethrin	0.125	Present	
Beta butoxy beta thiocyno diethyl ether	1.00	Present	
DDT	2.00	2.30	Passed
Allethrin	0.125	Present	
Beta butoxy beta thiocyno diethyl ether	1.00	Present	
Dixie Home Stores (Now: Winn-Dixie, Inc.)			
Dixie Home Aerosol Spray			
DDT	2.00	2.36	Passed
Allethrin	0.125	Present	
Beta butoxy beta thiocyno diethyl ether	1.00	Present	
W. R. Peele Company, Inc.			
Pelco Aerosol Insecticide			
DDT	2.00	2.25	Passed
Allethrin	0.125	Present	
Beta butoxy beta thiocyno diethyl ether	1.00	Present	
DDT—ALLETHRIN—ORGANIC THIOCYANATES—PIPERONYL BUTOXIDE			
Boyle-Midway, Inc.			
Fly Ded Push Button Insect Killer			
DDT	2.00	2.33	Passed
Allethrin	0.10	Present	
Beta butoxy beta thiocyno diethyl ether	1.00	Present	
Piperonyl butoxide	0.25	0.24	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
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The Dill Company, Inc.

Drop Dead Bug Killer

DDT	2.00	2.43	Passed
Allethrin	0.10	Present	
Thanite	1.00	Present	
Piperonyl butoxide	0.25	0.20	

DDT—CAPTAN—MALATHION—SULFUR**Science Products Company, Inc.**

Science Rose and Floral Dust

DDT	5.00		Deficient
Captan	7.50		
Malathion	4.00	3.31	
Sulfur	10.00	10.20	
Theoretical chlorine	5.15	6.14	

DDT—CAPTAN—MALATHION**Acme Quality Paints, Inc.**

Acme Rose Dust

DDT	5.00		Passed
Captan	7.00		
Malathion	4.00	4.43	
Theoretical chlorine	4.98	5.11	

Swift and Company

End-O-Pest Rose Dust

DDT	5.00		Deficient
Captan	7.50		
Malathion	4.50	3.84	
Theoretical chlorine	5.15	5.18	

DDT—COPPER**Farmers Cooperatives Exchange, Inc.**

FCX 7-5 Potato and Tomato Dust

DDT	5.00	4.75	Passed
Copper as metallic	7.00	6.76	

Mike, Inc.

101 Brand Potato Dust with 5% DDT

DDT	5.00	5.29	Passed
Copper as metallic	6.50	6.31	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
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Southern Agricultural Insecticides, Inc.

SA-50 Brand Potato Dust with 5% DDT

DDT	5.00	4.86	Passed
Copper as metallic	6.50	6.64	
DDT	5.00	5.18	Passed
Copper as metallic	6.50	6.78	
DDT	5.00	5.33	Passed
Copper as metallic	6.50	6.46	
DDT	5.00	5.21	Passed
Copper as metallic	6.50	6.74	

Taylor Chemical Company

Superkill Tomato Dust No. 10

DDT	10.00	10.29	Passed
Copper as metallic	6.00	5.84	

DDT—COPPER—SULFUR**W. R. Peele Company, Inc.**

Pelco Rose Dust

DDT	10.00	10.86	Passed
Copper as metallic	5.00	5.46	
Sulfur	40.00	41.93	
DDT	10.00	9.57	Passed
Copper as metallic	5.00	5.15	
Sulfur	40.00	38.23	

DDT—DDD—PARATHION**Cape Fear Chemicals, Inc.**

Tiger Brand 1-5-5 Tobacco Dust

DDT	5.00		Passed
DDD	5.00		
Parathion	1.00	1.02	
Theoretical chlorine	4.72	4.78	

DDT—ENDRIN**Daly-Herring Company**

Bacco Beetle Spray Emulsifiable Concentrate

DDT	16.50		Passed
Endrin	6.50		
Theoretical chlorine	11.88	12.48	
DDT	16.50		Passed
Endrin	6.50		
Theoretical chlorine	11.88	11.76	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
Bacco Beetle Spray (Continued)			
DDT	16.50		Passed
Endrin	6.50		
Theoretical chlorine	11.88	11.58	
DDT	16.50		Passed
Endrin	6.50		
Theoretical chlorine	11.88	12.77	
Quality Chemical Corporation			
Beetle and Worm Spray			
DDT	11.99		Deficient
Endrin	12.20		
Theoretical chlorine	12.81	10.61	
DDT	11.99		Passed
Endrin	12.20		
Theoretical chlorine	12.81	12.68	
Tobacco Special			
DDT	16.50		Passed
Endrin	6.50		
Theoretical chlorine	11.88	15.37	
DDT—MANEB			
Southern Agricultural Insecticides, Inc.			
SA-50 Brand Manzate Dust with 5% DDT			
DDT	5.00	5.25	Passed
Manganese ethylene bisdithiocarbamate	5.00	5.83	
DDT—METHYL PARATHION			
Molony Fertilizer Company			
Lightning Brand Dust 2½-5-0 Methyl Parathion-DDT			
DDT	5.00	4.50	Deficient
Methyl parathion	2.50	1.87	
Olin Mathieson Chemical Corporation			
Mathieson Methyl Parathion-DDT Cotton Dust 2.5-10			
DDT	10.00	9.71	Deficient
Methyl parathion	2.50	2.16	
Taylor Chemical Company			
Superkill 2½ P—10 Dust			
DDT	10.00	10.86	Passed
Methyl parathion	2.50	2.84	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
DDT—ORGANIC THIOCYANATES			
Boyle-Midway, Inc.			
Black Flag Insect Spray			
DDT	5.00	5.30	Passed
Beta butoxy beta thiocyno diethyl ether	1.00	Present	
DDT	5.00	4.45	Deficient
Beta butoxy beta thiocyno diethyl ether	1.00	Present	
DDT	5.00	5.34	Passed
Beta butoxy beta thiocyno diethyl ether	1.00	Present	
Chase Products Company			
Chase's New Insecticide Bomb			
DDT	5.00	5.02	Passed
Thanite	2.50	2.94	
S and S Company			
Division of Chase Products Company			
Sands Insect Bomb			
DDT	5.00	5.16	Passed
Thanite	5.00	5.28	
Douglas Chemical Company			
Douglas Farm Bin Spray Insect Killer			
DDT		5.64	Misbranded
Organic thiocyanates		Present	
Total Nitrogen		0.15	
Little Giant Company			
Little Giant Push Button Insect Spray 5% DDT			
DDT	5.00	4.48	Deficient
Thanite	5.00	5.47	
DDT—ORGANIC THIOCYANATES— PIPERONYL BUTOXIDE—PYRETHRINS			
Penola Oil Company			
Flit Aerosol Fly and Mosquito Killer			
DDT	2.00	2.32	Passed
Beta butoxy beta thiocyno diethyl ether	1.00	Present	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
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Flit Aerosol Fly and Mosquito Killer (Continued)

Piperonyl butoxide	0.80	0.91	Passed
Pyrethrins	0.10	0.092	
DDT	2.00	1.98	Present
Beta butoxy beta thiocyno diethyl ether	1.00		
Piperonyl butoxide	0.80	0.88	
Pyrethrins	0.10	0.097	

DDT—PARATHION—SULFUR**California Spray-Chemical Corporation
(Now: California Chemical Company—Ortho Div.)**

Persistophos S 5-1. 5-25 Dust

DDT	5.00	4.36	Deficient
Parathion	1.50	1.37	
Sulfur	25.00	26.12	
DDT	5.00	5.43	Passed
Parathion	1.50	1.77	
Sulfur	25.00	26.23	
DDT	5.00	4.32	Deficient
Parathion	1.50	1.53	
Sulfur	25.00	25.02	
DDT	5.00	4.64	Deficient
Parathion	1.50	1.42	
Sulfur	25.00	25.18	
DDT	5.00	5.36	Passed
Parathion	1.50	1.50	
Sulfur	25.00	25.00	
DDT	5.00	4.86	Passed
Parathion	1.50	1.77	
Sulfur	25.00	26.32	
DDT	5.00	4.86	Passed
Parathion	1.50	1.84	
Sulfur	25.00	24.93	
DDT	5.00	5.33	Passed
Parathion	1.50	2.01	
Sulfur	25.00	24.18	
DDT	5.00	6.14	Passed
Parathion	1.50	1.91	
Sulfur	25.00	27.42	

**W. R. Grace and Company
(Davison Chemical Division)**

Naco-Customer Special Mixture

DDT	5.00	4.93	Passed
Parathion	1.50	1.66	
Sulfur	30.00	29.68	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
Southern Agricultural Insecticides, Inc.			
SA-50 Brand 1½% Parathion Dust with 5% DDT			
DDT	5.00	5.14	Passed
Parathion	1.50	1.79	
Sulfur	25.00	30.56	
DDT	5.00	5.29	Passed
Parathion	1.50	1.89	
Sulfur	25.00	24.86	
DDT	5.00	5.18	Passed
Parathion	1.50	2.14	
Sulfur	25.00	26.22	
DDT	5.00	4.96	Passed
Parathion	1.50	2.09	
Sulfur	25.00	24.76	
DDT	5.00	6.07	Passed
Parathion	1.50	1.91	
Sulfur	25.00	24.47	
DDT	5.00	4.86	Passed
Parathion	1.50	1.57	
Sulfur	25.00	25.88	
DDT	5.00	5.07	Passed
Parathion	1.50	1.70	
Sulfur	25.00	26.20	
DDT	5.00	5.43	Passed
Parathion	1.50	1.58	
Sulfur	25.00	26.75	
DDT	5.00	4.93	Passed
Parathion	1.50	1.65	
Sulfur	25.00	25.58	
DDT	5.00	6.03	Passed
Parathion	1.50	1.76	
Sulfur	25.00	26.15	
DDT	5.00	5.36	Passed
Parathion	1.50	1.88	
Sulfur	25.00	28.60	
DDT	5.00	4.86	Passed
Parathion	1.50	1.78	
Sulfur	25.00	25.91	
DDT	5.00	5.36	Passed
Parathion	1.50	1.87	
Sulfur	25.00	24.81	
DDT	5.00	5.36	Passed
Parathion	1.50	1.61	
Sulfur	70.00	67.04	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
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DDT—PERTHANE**Gulf Oil Corporation**

Gulf Moth Proofer

DDT	3.00		Passed
Perthane	3.00		
Theoretical chlorine	2.19	2.43	

DDT—PIPERONYL BUTOXIDE—PYRETHRINS**A-Penn Oil Company**

Kilzum 2 in 1 Insect Spray

DDT	5.00	4.59	Deficient
Piperonyl butoxide	0.052	0.085	
Pyrethrins	0.021	0.06	
DDT	5.00	4.78	Passed
Piperonyl butoxide	0.052	0.074	
Pyrethrins	0.021	0.071	
DDT	5.00	4.79	Passed
Piperonyl butoxide	0.052	0.10	
Pyrethrins	0.021	0.12	

United Cooperatives, Inc.

(Registered by—Farmers Cooperative Exchange, Inc.)

Unico Household Spray

DDT	0.25	0.43	Excessive Active Ingredient
Piperonyl butoxide	0.20	0.18	
Pyrethrins	0.02	0.06	
DDT	0.25	0.30	Passed
Piperonyl butoxide	0.20	0.18	
Pyrethrins	0.02	0.033	
DDT	0.25	0.38	Passed
Piperonyl butoxide	0.20	0.19	
Pyrethrins	0.02	0.04	

DDT—PYRETHRINS**Dr. L. D. LeGear Medicine Company**
(Now: Dr. LeGear, Inc.)

Dr. LeGear's Flea and Tick Powder

DDT	10.00	9.89	Passed
Pyrethrins	0.50	0.34	
DDT	10.00	10.43	Passed
Pyrethrins	0.50	0.45	
DDT	10.00	10.14	Passed
Pyrethrins	0.50	0.66	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
Walgreen Laboratories, Inc.			
Dolph Insect Bomb			
DDT	3.00	2.86	Passed
Pyrethrins	0.50	0.54	
DDT—ROTENONE			
Lebanon Chemical Corporation			
Lebanon Ro-Dust "301"—3% DDT 1% Rotenone			
DDT	3.00	3.07	Not registered Deficient
Rotenone	1.00	0.78	
DDVP			
Fly-Cord, Inc.			
Flyco Brand Wet or Dry Fly Bait with DDVP			
DDVP (Dimethyl dichloro vinyl phosphate)	0.50	0.97	Passed
do	0.50	0.70	Passed
DIAZINON			
Hot Shot Quality Products, Inc.			
Hot Shot Fly Bait			
Diazinon [O, O—diethyl O—(2- isopropyl-4-methyl-6-pyrimidinyl) phosphorothioate]	1.00	1.04	Passed
do	1.00	1.17	Passed
DIELDRIN			
Farmers Cooperative Exchange, Inc.			
FCX 2½% Dieldrin Granular Dust			
Dieldrin	2.50	2.63	Passed
W. R. Peele Company, Inc.			
Pelco Dieldrin Emulsifiable Concentrate			
Dieldrin	18.60	17.04	Deficient
do	18.60	17.25	Deficient
do	18.60	18.86	Passed

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
Science Products Company, Inc.			
Science Dieldrin EC-15			
Dieldrin	18.60	19.50	Passed
Hexachloroepoxy octahydro dime- thano naphthalene	15.80		Passed
Related compounds	2.80		
Technical dieldrin	18.60	21.36	
Southern Agricultural Insecticides, Inc.			
SA-50 Brand 10% Dieldrin Granules			
Dieldrin	10.00	11.57	Passed
Taylor Chemical Company			
Superskill 10% Dieldrin Granules			
Dieldrin	10.00	11.28	Passed
DIELDRIN—BHC			
California Spray-Chemical Corporation (Now: California Chemical Company—Ortho Div.)			
Ortho Lawn and Garden Dieldrin Granules			
Dieldrin	4.00		Passed
Gamma isomer of BHC	1.00		
Theoretical chlorine	2.96	3.00	
DIELDRIN—BHC—PYRETHRINS			
Penola Oil Company			
Flit Roach and Ant Killer			
Dieldrin	0.45		Passed
Gamma isomer of BHC	0.05		
Pyrethrins	0.05	0.06	
Theoretical chlorine	0.29	0.30	
Dieldrin	0.45		Passed
Gamma isomer of BHC	0.05		
Pyrethrins	0.05	0.10	
Theoretical chlorine	0.29	0.40	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
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DIELDRIN—DIAZINON—PYRETHRINS**Real-Kill Products-Division of Cook Chemical Company****Real-Kill Bug Killer**

Dieldrin	0.30	0.41	Passed
Diazinon [O, O-diethyl O-(2-isopropyl-4-methyl-(6-pyrimidinyl) phosphorothioate]	0.20	0.32	
Pyrethrins	0.046		
Dieldrin	0.30	0.38	Passed
Diazinon [O, O-diethyl O-(2-isopropyl-4-methyl-6-pyrimidinyl) phosphorothioate]	0.20	0.21	
Pyrethrins	0.046	0.05	
Dieldrin	0.30	0.32	Passed
Diazinon (O, O-diethyl O-(2-isopropyl-4-methyl-6-pyrimidinyl) phosphorothioate]	0.20	0.36	
Pyrethrins	0.046	0.060	
Dieldrin	0.30	0.34	Passed
Diazinon (O, O-diethyl O-(2-isopropyl-4-methyl-6-pyrimidinyl) phosphorothioate]	0.20	0.28	
Pyrethrins	0.046	0.072	

DIELDRIN—PIPERONYL BUTOXIDE—PYRETHRINS**S. C. Johnson and Son, Inc.****Raid Liquid Roach and Ant Killer**

Dieldrin	0.50	0.51	Passed
Piperonyl butoxide	0.09	0.06	
Pyrethrins	0.045	0.058	
Dieldrin	0.50	0.49	Passed
Piperonyl butoxide	0.09	0.092	
Pyrethrins	0.045	0.13	

DIELDRIN—PYRETHRINS**Real Kill Products-Division of Cook Chemical Company****Real-Kill Bug Killer**

Dieldrin .....	.50	.49	Passed
Pyrethrins .....	.046	.076	
Dieldrin .....	.50	.53	Passed
Pyrethrins .....	.046	.054	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
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DIMITE**Acme Quality Paints, Inc.**

Acme Dimite

Dimite [Di (p-chlorophenyl) methyl-carbinol]	25.00	31.22	Passed
do	25.00	32.06	Passed

ENDRIN**Acme Fertilizer Company**

Acme 1½% Endrin Insecticide Dust

Endrin	1.50	1.80	Passed
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Acme Endrin Emulsion

Endrin	19.00	19.93	Passed
do	19.00	19.73	Passed

**California Spray-Chemical Corporation
(Now: California Chemical Company—Ortho Div.)**

Ortho Endrin 1.5 Dust

Endrin	1.50	1.46	Passed
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Ortho Endrin 1.6 Emulsive

Endrin	18.60	19.02	Passed
do	18.60	19.25	Passed
do	18.60	19.34	Passed
do	18.60	19.42	Passed
do	18.60	18.86	Passed

Ortho Endrin 1.6 Spray

Endrin	19.50	19.55	Passed
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Cape Fear Chemicals, Inc.

Tiger Brand 1½% Endrin Dust

Endrin	1.50	1.60	Passed
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Tiger Endrin Emulsifiable Concentrate

Endrin	19.50	18.69	Passed
do	19.50	18.54	Passed

Carolina Chemicals, Inc.

Flight Brand Endrin Dust

Endrin	1.50	1.69	Passed
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Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
Carter Insecticide and Chemical Company, Inc.			
Carolina Brand Endrin Emulsible Concentrate			
Endrin	19.50	20.09	Passed
do	19.50	21.48	Passed
do	19.50	21.10	Passed
do	19.50	19.40	Passed
do	19.50	20.15	Passed
do	19.50	20.00	Passed
do	19.50	20.38	Passed
Central Chemical Corporation			
Farmrite Endrin 1.6-E			
Endrin	19.50	20.89	Passed
Daly-Herring Company			
Dee Aitch Endrin Emulsible Concentrate			
Endrin	19.50	20.38	Passed
do	19.50	19.90	Passed
do	19.50	20.50	Passed
do	19.50	19.29	Passed
do	19.50	19.31	Passed
do	19.50	19.36	Passed
do	19.50	19.29	Passed
do	19.50	19.60	Passed
Farmers Cooperative Exchange, Inc.			
FCX 1.5% Endrin Dust			
Endrin	1.50	1.87	Passed
FCX Endrin Emulsifiable Concentrate			
Endrin	18.90	20.09	Passed
do	18.90	20.01	Passed
do	18.90	21.27	Passed
do	18.90	19.65	Passed
do	18.90	19.89	Passed
Graham Chemical Company			
Graham's Red Star Endrin Emulsifiable Concentrate			
Endrin	19.50	21.08	Passed
Maxwell Insecticide Company, Inc.			
Maxwell 1½% Endrin Dust			
Endrin	1.50	1.66	Passed
Maxwell Endrin Emulsifiable Concentrate			
Endrin	19.50	22.14	Passed
do	19.50	20.18	Passed

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
Molony Fertilizer Company			
Lightning Brand 1½% Endrin Dust			
Endrin	1.50	1.66	Passed
Lightning Brand Endrin Emulsifiable Concentrate			
Endrin	19.50	19.30	Passed
do	19.50	21.16	Passed
Niagara Chemical Division Food Machinery and Chemical Corporation			
Niagara Endrin Emulsifiable			
Endrin	18.50	20.67	Passed
Olin Mathieson Chemical Corporation			
Mathieson Endrin 1.6 lb. Emulsifiable Concentrate			
Endrin	18.48	21.22	Passed
do	19.80	20.75	Passed
do	19.80	20.67	Passed
do	19.80	20.25	Passed
do	19.80	21.04	Passed
do	19.80	20.99	Passed
do	19.80	22.28	Passed
W. R. Peele Company, Inc.			
Pelco 1½% Endrin Dust			
Endrin	1.50	1.87	Passed
do	1.50	1.63	Passed
Pelco Endrin Emulsifiable Concentrate			
Endrin	19.50	18.78	Passed
do	19.50	18.75	Passed
do	19.50	19.03	Passed
do	19.50	18.54	Passed
do	19.50	18.71	Passed
do	19.50	18.76	Passed
do	19.50	18.83	Passed
Planters Chemical Corporation			
Planters 1½% Endrin Dust			
Endrin	1.50	1.60	Passed
Planters Endrin Emulsifiable Concentrate			
Endrin	19.50	18.72	Passed
do	19.50	18.83	Passed
do	19.50	18.79	Passed
do	19.50	17.39	Deficient

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
Quality Chemical Corporation			
Endrin Emulsible Concentrate			
Endrin	19.50	18.95	Passed
do	19.50	20.00	Passed
do	19.50	19.91	Passed
do	19.50	18.98	Passed
do	19.50	20.11	Passed
do	19.50	18.84	Passed
do	19.50	18.75	Passed
Southern Agricultural Chemicals, Inc.			
Royal Brand 1½ % Endrin Dust			
Endrin	1.50	1.66	Passed
Royal Brand Endrin Emulsible Concentrate			
Endrin	19.50	20.22	Passed
do	19.50	18.88	Passed
do	19.50	18.96	Passed
Stauffer Chemical Company			
Endrin 1.6 E			
Endrin	19.80	20.80	Passed
Swift and Company			
Swift's Gold Bear Brand Insecticide Dust E 1.5			
Endrin	1.50	1.66	Passed
Swift's Gold Bear Brand Endrin E 1.6 E			
Endrin	18.70	18.67	Passed
Taylor Chemical Company			
Taylor Superkill 2% Endrin Dust			
Endrin	2.00	2.23	Passed
Superkill 19.5 Endrin Emulsifiable Concentrate			
Endrin	19.50	20.05	Passed
do	19.50	20.38	Passed
Woolfolk Chemical Works, Ltd.			
Security Brand Endrin-Sol			
Endrin	18.50	19.26	Passed

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
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ENDRIN—PARATHION**Southern Agricultural Insecticides, Inc.**

SA-50 Brand Dust Containing 1½% Endrin-1% Parathion

Endrin	1.50	1.80	Passed
Parathion	1.00	1.16	

FERBAM**Daly-Herring Company**

Dee Aitch 15% Fermate Dust

Ferric dimethyl dithiocarbamate	11.40	10.30	Deficient
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Farmers Cooperative Exchange, Inc.

FCX Ferbam No. 10 Dust

Ferric dimethyl dithiocarbamate	11.40	11.07	Passed
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Graham Chemical Company

Graham's Red Star "Fermate" Dust

Ferric dimethyl dithiocarbamate	11.40	12.20	Passed
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FERBAM-DDT**California Spray-Chemical Corporation**

(Now: California Chemical Company—Ortho Div.)

Ortho Ferbam-DDT 11.4-5 Dust

Ferric dimethyl dithiocarbamate	11.40	10.90	Passed
DDT	5.00	4.86	

Daly-Herring Company

Dee Aitch 15% Fermate 3% DDT Dust

Ferric dimethyl dithiocarbamate	11.40	11.07	Passed
DDT	3.00	3.15	

Farmers Cooperative Exchange, Inc.

FCX 15% Fermate-5% DDT Dust

Ferric dimethyl dithiocarbamate	11.40	11.41	Passed
DDT	5.00	5.11	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
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FERBAM—DDT—SULFUR**Farmers Cooperative Exchange, Inc.****FCX Rose Dust—Combination Insecticide and Fungicide**

Ferric dimethyl dithiocarbamate	7.60	8.20	Passed
DDT	5.00	5.07	
Sulfur	75.00	74.75	
Ferric dimethyl dithiocarbamate	7.60	8.16	Passed
DDT	5.00	5.93	
Sulfur	75.00	72.35	
Ferric dimethyl dithiocarbamate	7.60	6.97	Deficient
DDT	5.00	5.21	
Sulfur	75.00	72.40	

FERBAM—DICHLONE—SULFUR**Corona Chemical Division
Pittsburgh Plate Glass Company****Corona Micronized Phybam-S**

Ferric dimethyl dithiocarbamate	9.50	8.51	Deficient
Dichlone (2, 3-Dichloro-1, 4-naph- thoquinone)	3.00	2.29	
Sulfur	71.00	73.25	
Ferric dimethyl dithiocarbamate	9.50	8.45	Deficient
Dichlone (2, 3-Dichloro-1, 4-naph- thoquinone)	3.00	3.07	
Sulfur	71.00	75.55	

**Niagara Chemical Division
Food Machinery and Chemical Corporation****Niagara Kolo Ferbam Phygon Spray**

Ferric dimethyl dithiocarbamate	9.50	9.15	Passed
Dichlone (2, 3-Dichloro-1, 4-naph- thoquinone)	3.00	2.85	
Sulfur	67.60	71.70	

FERBAM—PARATHION**Maxwell Insecticide Company, Inc.****Maxwell "Fermate" Parathion Dust**

Ferric dimethyl dithiocarbamate	11.40	11.25	Passed
Parathion	1.00	0.96	

**FLUORINE COMPOUNDS
SODIUM FLUORIDE****Ralston Purina Company****Purina Lice Powder**

Sodium fluoride	35.00	37.47	Passed
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Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
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SODIUM FLUORIDE—SODIUM FLUOSILICATE**Senoret Chemical Company**

Terro Roach Killer

Sodium fluoride	40.00		Passed
Sodium fluosilicate	10.00		
Theoretical fluorine	24.16	23.21	

**SODIUM FLUOSILICATE—ORGANIC THIOYANATES—
ROTENONE—SULFUR****Carbola Chemical Company**

CCC Flea and Louse Killer

Sodium fluosilicate	10.00	2.30	Deficient
Beta thiocyno ethyl esters of ali- phatic fatty acids—10 to 18 carbon atoms	0.75	Present	
Rotenone	0.40	0.40	
Sulfur	15.00	15.83	

**SODIUM FLUORIDE—PIPERONYL BUTOXIDE—
PYRETHRINS****Rigo Manufacturing Company**

Kill-Ko Roach Powder

Sodium fluoride	58.00	59.56	Passed
Piperonyl butoxide	1.50	1.41	
Pyrethrins	0.15	0.16	
Sodium fluoride	58.00	59.78	Passed
Piperonyl butoxide	1.50	1.58	
Pyrethrins	0.15	0.17	

SODIUM FLUORIDE—PYRETHRINS**Master Products Company**

Roach Buster

Sodium fluoride	76.00	77.46	Passed
Pyrethrins	0.10	0.12	

**SODIUM FLUORIDE—SODIUM FLUOSILICATE—
PYRETHRINS****Wonder Products Company**

Wonder Roach Powder

Sodium fluoride	47.50		Passed
Sodium fluosilicate	1.00		
Pyrethrins	0.25	0.30	
Theoretical fluorine	22.10	21.21	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
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SODIUM FLUORIDE—SULFUR**Walker Remedy Company**

Walko Lice Powder

Sodium fluoride	18.00	17.17	Passed
Sulfur	30.00	31.67	

FUMARIN**Independent Exterminating Company of N. C.**

Inexco Rat and Mouse Bait

Fumarin	0.025	0.023	Passed
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Peninsular Products Company, Inc.

Rat Bait

Fumarin	0.025	0.030	Passed
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Sanitation Products Company, Inc.

Bait-Tox

Fumarin	0.025	0.030	Passed
do	0.025	0.029	Passed

S. C. Wells and Company, Inc.

Rough on Rats (Ready Mixed Bait)

Fumarin	0.025	0.029	Passed
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GUTHION**Chemagro Corporation**

Guthion Spray Concentrate

Guthion [O, O-Dimethyl S-4-oxo-1, 2, 3-benzotriazin-3 (4H)-ylmethyl phosphorodithioate]	18.10	17.66	Passed
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Guthion 25% Wettable

Guthion (O,O-Dimethyl S-4-oxo-1, 2, 3-benzotriazin-3 (4H)-ylmethyl phosphorodithioate)	25.00	27.65	Passed
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HEPTACHLOR**California Spray-Chemical Corporation
(Now: California Chemical Company—Ortho Div.)**

Ortho Heptachlor 2, Emulsive

Heptachlor (Technical)	31.20	31.83	Passed
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Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
Farmers Cooperative Exchange, Inc.			
FCX Heptachlor Emulsifiable Concentrate			
Heptachlor (Technical)	32.20	31.21	Passed
Mike, Inc.			
Heptachlor 2½% Granular			
Heptachlor (Technical)	3.47	3.48	Passed
do	3.47	3.34	Passed
Southern Agricultural Insecticides, Inc.			
SA-50 Brand Heptachlor Granules			
Heptachlor (Technical)	3.47	3.89	Passed
Swift & Company			
Swift's Gold Bear Brand Granules A 2.5 G			
Heptachlor (Technical)	3.47	3.53	Passed
United Cooperatives, Inc.			
(Registered by—Farmers Cooperative Exchange, Inc.)			
Unico 2½% Heptachlor Granular			
Heptachlor (Technical)	3.47	3.37	Passed
MALATHION			
Boyle-Midway, Inc.			
Antrol 50% Malathion			
Malathion	50.00	53.56	Passed
California Spray-Chemical Corporation			
(Now: California Chemical Company—Ortho Div.)			
Ortho Malathion 5 Dust			
Malathion	5.00	3.78	Deficient
do	5.00	4.65	Deficient
do	5.00	3.65	Deficient
Ortho Malathion Garden Dust			
Malathion	5.00	5.64	Passed
do	5.00	5.40	Passed
Ortho Malathion 50 Spray			
Malathion	50.00	50.80	Passed
do	50.00	50.97	Passed
Ortho Malathion 8 Flow Concentrate			
Malathion	81.00	80.98	Passed

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
Carbola Chemical Company, Inc.			
Carbola CCC Fly Bait			
Malathion	2.00	5.96	Excessive Active Ingredient
Carter Insecticide and Chemical Company, Inc.			
Carolina Brand Malathion Emulsifiable Concentrate			
Malathion	50.00	56.06	Passed
Carolina Chemicals, Inc.			
Flight Brand 5% Malathion Dust			
Malathion	5.00	4.80	Passed
do	5.00	5.94	Passed
Diamond Alkali Company			
Malathion Spray			
Malathion	50.00	55.35	Passed
Farmers Cooperative Exchange, Inc.			
FCX 4% Malathion Dust			
Malathion	4.00	3.46	Deficient
do	4.00	3.95	Passed
do	4.00	4.12	Passed
do	4.00	4.16	Passed
FCX Pet Dust			
Malathion	4.00	4.31	Passed
do	4.00	4.18	Passed
do	4.00	3.87	Passed
do	4.00	4.14	Passed
FCX Cattle and Poultry Dust			
Malathion	5.00	5.09	Passed
do	5.00	4.39	Deficient
do	5.00	4.75	Passed
do	5.00	4.94	Passed
FCX 5% Malathion Dust			
Malathion	5.00	4.75	Passed
FCX 10% Malathion Dust			
Malathion	10.00	9.72	Passed
FCX Malathion Spray			
Malathion	51.30	59.01	Passed
FCX Malathion Emulsifiable Concentrate			
Malathion	55.20	57.43	Passed

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
Florida Agricultural Supply Company			
Fasco Fly Flakes			
Malathion	1.00	1.13	Passed
do	1.00	1.16	Passed
do	1.00	2.25	Excessive Active Ingredient
Maxwell Insecticide Company, Inc.			
Maxwell 4% Malathion Dust			
Malathion	4.00	3.76	Deficient
do	4.00	4.24	Passed
do	4.00	4.87	Passed
Miller Chemical and Fertilizer Corporation			
Miller Hy-Tox Fly Bait			
Malathion	2.00	1.90	Passed
Molony Fertilizer Company			
Lightning Brand Malathion Emulsible Concentrate			
Malathion	55.00	51.20	Deficient
Olin Mathieson Chemical Corporation			
Mathieson Malathion 4% Dust			
Malathion	4.00	3.90	Passed
do	4.00	4.73	Passed
do	4.00	4.78	Passed
Mathieson Malathion 5 lb. Emulsifiable Concentrate			
Malathion	55.00	53.43	Passed
do	55.00	57.89	Passed
Mathieson Malathion 5 lb. Emulsifiable Liquid			
Malathion	57.00	62.13	Passed
do	57.00	66.94	Passed
do	57.00	60.90	Passed
W. R. Peele Company, Inc.			
Pelco 4% Malathion Dust			
Malathion	4.00	3.83	Passed
do	4.00	3.80	Passed
Pennsylvania Salt Manufacturing Company (Now: Pennsalt of Washington Div., Pennsalt Chemical Corp.)			
Penco Malathion E 50			
Malathion	50.80	48.16	Deficient

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
Planters Chemical Corporation			
Planters 4% Malathion Dust			
Malathion	4.00	3.80	Passed
Quality Chemical Corporation			
Malathion 4% Dust			
Malathion	4.00	2.24	Deficient
Malathion Emulsible Concentrate			
Malathion	55.00	52.86	Passed
do	55.00	55.57	Passed
Ralston Purina Company			
Purina Malathion Spray			
Malathion	57.00	58.41	Passed
Rigo Manufacturing Company			
Kill-Ko Flea Powder Contains Malathion			
Malathion	4.00	4.33	Passed
do	4.00	3.93	Passed
do	4.00	3.94	Passed
Kill-Ko Malathion 5% Dust			
Malathion	5.00	4.75	Passed
do	5.00	4.90	Passed
do	5.00	3.42	Deficient
do	5.00	5.16	Passed
Kill-Ko Malathion 50% Emulsifiable			
Malathion	50.00	54.25	Passed
do	50.00	54.21	Passed
do	50.00	53.62	Passed
Southern Agricultural Chemicals, Inc.			
Royal Brand 5% Malathion Dust			
Malathion	5.00	4.69	Deficient Not Registered
Southern Agricultural Insecticides, Inc.			
SA-50 Brand 4% Malathion Dust			
Malathion	4.00	2.64	Deficient
do	4.00	4.36	Passed
do	4.00	3.94	Passed

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
SA-50 Brand 5% Malathion Dust			
Malathion	5.00	5.15	Passed
SA-50 Brand 25% Malathion Wettable Spray Concentrate			
Malathion	25.00	26.24	Passed
SA-50 Brand 53% Emulsible Malathion			
Malathion	53.00	56.71	Passed
Swift and Company			
Swift's Gold Bear Brand Insecticide Dust G-4 (4% Malathion)			
Malathion	4.00	4.01	Passed
Swift's Gold Bear Brand Malathion G-5-E			
Malathion	55.00	62.09	Passed
Taylor Chemical Company			
Superkill 4% Malathion Dust			
Malathion	4.00	4.36	Passed
Superkill 5% Malathion Dust			
Malathion	5.00	4.97	Passed
do	5.00	4.60	Deficient
United Cooperatives, Inc. (Registered by—Farmers Cooperative Exchange, Inc.)			
Unico Malathion Grain Protectant Dust			
Malathion	1.00	1.06	Passed
Unico Malathion Emulsifiable Concentrate			
Malathion	51.30	53.39	Passed
do	51.30	51.73	Passed
Virginia Smelting Company Petasol Products Division			
Petasol Flea Killer and Deodorant			
Malathion	1.50	2.42	Passed
Whitmoyer Laboratories, Inc.			
Whitmoyer Malathion			
Malathion	57.00	57.80	Passed

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
Woolfolk Chemical Works, Ltd.			
Security Brand 5% Malathion Dust			
Malathion	5.00	4.21	Deficient
do	5.00	4.20	Deficient
do	5.00	4.90	Passed
Security Brand 55% Malathion Emulsifiable liquid			
Malathion	55.00	57.23	Passed
MALATHION—BHC			
California Spray-Chemical Corporation (Now: California Chemical Company—Ortho Div.)			
Ortho Fly Killer			
Malathion	29.20	23.80	Deficient
Gamma isomer of BHC	10.00	9.97	
Ralston Purina Company			
Purina Poultry Insecticide (Roost Paint)			
Malathion	2.80	2.93	Passed
Gamma isomer of BHC	1.45	1.56	
Malathion	2.80	2.90	Passed
Gamma isomer of BHC	1.45	1.46	
Vineland Poultry Laboratories			
Vineland Nest-Kleen Dusting Powder			
Malathion	4.00	3.60	Deficient
Gamma isomer of BHC	1.00	1.05	
MALATHION—BHC—DDD			
California Spray-Chemical Corporation (Now: California Chemical Company—Ortho Div.)			
Ortho Isotox Garden Spray			
Malathion	12.50	12.70	Passed
Gamma isomer of BHC	5.00		
DDD	5.00		
Theoretical chlorine	5.87	5.96	
Malathion	12.50	12.46	Passed
Gamma isomer of BHC	5.00		
DDD	5.00		
Theoretical chlorine	5.87	6.04	
Malathion	12.50	12.05	Passed
Gamma isomer of BHC	5.00		
DDD	5.00		
Theoretical chlorine	5.87	5.95	
Malathion	12.50	14.46	Passed
Gamma isomer of BHC	5.00		
DDD	5.00		
Theoretical chlorine	5.87	6.55	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
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MALATHION—BHC—DDT—TEDION**California Spray-Chemical Corporation
(Now: California Chemical Company—Ortho Div.)****Ortho Isotox Garden Spray**

Malathion	10.00	10.15	Passed
Gamma isomer of BHC	5.00		
DDT	5.00		
Tedion (2, 4, 5, 4 Tetrachlorodi- phenyl sulfone)	3.00		
Theoretical chlorine	7.36	7.47	

MALATHION—CAPTAN—KARATHANE—SULFUR**Union Carbide Consumer Products
Division of Union Carbide Corporation****Eveready Rose Dust**

Malathion	5.00	5.56	Passed
Captan	7.50	9.00	
Karathane	1.00	1.68	
Sulfur	15.00	14.29	

MALATHION—DDVP**Master Products Company****Last Flight Fly Buster**

Malathion	1.00		Passed
DDVP (O, O Dimethyl 2, 2 di- chlorovinyl phosphate)	1.00		
Theoretical phosphorus	0.23	0.20	
Malathion	1.00		Passed
DDVP (O, O Dimethyl 2, 2 di- chlorovinyl phosphate)	1.00		
Theoretical phosphorus	0.23	0.40	

**California Spray-Chemical Corporation
(Now: California Chemical Company—Ortho Div.)****Ortho Fly Killer Dry Bait**

Malathion	1.00		Passed
DDVP (O, O Dimethyl 2, 2 di- chlorovinyl phosphate)	0.50		
Theoretical phosphorus	0.16	0.18	

Ralston Purina Company**Purina Fly Bait**

Malathion	1.00		Passed
DDVP (O, O Dimethyl 2, 2 di- chlorovinyl phosphate)	0.50		
Theoretical phosphorus	0.16	0.17	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
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**MALATHION—DIELDRIN—PIPERONYL BUTOXIDE—
PYRETHRINS**

B. T. Bobbitt, Inc.

Hep Bug Killer

Malathion	1.000	1.080	Passed
Dieldrin	0.250	0.380	
Piperonyl butoxide	0.125	0.083	
Pyrethrins	0.050	0.110	

Boyle-Midway, Inc.

Black Flag Ant and Roach Killer

Malathion	1.00	1.34	Passed
Dieldrin	0.30	0.38	
Piperonyl butoxide	0.10	0.09	
Pyrethrins	0.04	0.19	
Malathion	1.00	1.37	Passed
Dieldrin	0.30	0.31	
Piperonyl butoxide	0.10	0.10	
Pyrethrins	0.04	0.15	
Malathion	1.00	1.26	Passed
Dieldrin	0.30	0.40	
Piperonyl butoxide	0.10	0.09	
Pyrethrins	0.04	0.07	
Malathion	1.00	1.28	Passed
Dieldrin	0.30	0.46	
Piperonyl butoxide	0.10	0.10	
Pyrethrins	0.04	0.15	

**California Spray-Chemical Corporation
(Now: California Chemical Company—Ortho Div.)**

Ortho Ant and Roach Bomb

Malathion	2.00	2.28	Passed
Dieldrin	0.30	0.33	
Piperonyl butoxide	0.12	0.09	
Pyrethrins	0.05	0.18	
Malathion	2.00	2.14	Passed
Dieldrin	0.30	0.31	
Piperonyl butoxide	0.12	0.12	
Pyrethrins	0.05	0.22	
Malathion	2.00	2.18	Passed
Dieldrin	0.30	0.80	
Piperonyl butoxide	0.12	0.13	
Pyrethrins	0.05	0.17	
Malathion	2.00	2.04	Passed
Dieldrin	0.30	0.36	
Piperonyl butoxide	0.12	0.11	
Pyrethrins	0.05	0.35	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
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MALATHION—ORGANIC THIOCYANATES—PIPERONYL BUTOXIDE—PYRETHRINS—TERPENE POLYCHLORINATES

California Spray-Chemical Corporation (Now: California Chemical Company—Ortho Div.)

Ortho Household Insect Bomb

Malathion	1.00	1.15	Deficient
Thanite	1.00	Present	
Piperonyl butoxide	0.20	0.08	
Pyrethrins	0.025	0.028	
Terpene polychlorinates	1.00	1.08	
Malathion	1.00	1.13	Passed
Thanite	1.00	1.23	
Piperonyl butoxide	0.20	0.12	
Pyrethrins	0.025	0.26	
Terpene polychlorinates	1.00	1.45	
Malathion	1.00	0.95	Passed
Thanite	1.00	Present	
Piperonyl butoxide	0.20	0.19	
Pyrethrins	0.025	0.06	
Terpene polychlorinates	1.00	1.05	

MALATHION—PINE OIL

Virginia Smelting Company Petasol Products Division

Petasol Flea Killer and Deodorant

Malathion	1.52	1.99	Passed
Pine oil	4.00	Present	

MALATHION—PINE OIL—ROTENONE

Ralston Purina Company

Purina Back Scratch

Malathion	28.50	31.36	Passed
Pine oil	8.50	Present	
Rotenone	0.71	Present	

MALATHION—SEVIN

Polk Miller Products Corporation

Sergeant's Flea and Tick Spray

Malathion	0.25	0.40	Passed
Sevin (1-Naphthyl N-methylcarbamate)	0.50	0.54	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
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MALATHION—SULFUR**Farmers Cooperative Exchange, Inc.**

FCX Custom Mix Bean Dust

Malathion	4.00	4.18	Passed
Sulfur	50.00	49.95	

Mike, Inc.

101 Brand Malathion Dust with Sulfur

Malathion	4.00	4.12	Passed
Sulfur	18.00	18.18	
Malathion	4.00	4.07	Passed
Sulfur	18.00	18.10	

Southern Agricultural Insecticides, Inc.

SA-50 Brand 4% Malathion Dust with 25% Sulfur

Malathion	4.00	4.07	Passed
Sulfur	25.00	25.40	
Malathion	4.00	4.07	Passed
Sulfur	25.00	25.40	

MANEB**Farmers Cooperative Exchange, Inc.**

FCX 1.4% Maneb Dust

Manganese ethylene bisdithiocarbamate	1.40	1.38	Passed
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Southern Agricultural Insecticides, Inc.

SA-50 Brand Manzate Dust

Manganese ethylene bisdithiocarbamate	5.60	6.36	Passed
do	5.60	5.94	Passed
do	5.60	5.83	Passed
do	5.60	5.89	Passed
do	5.60	5.67	Passed
do	5.60	5.50	Passed

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
METHOXYCHLOR			
E. I. du Pont de Nemours and Company			
Du Pont Marlate 2 MR 24% Technical Methoxychlor			
Methoxychlor	24.00	25.19	Passed
Du Pont Dairy Cattle Insecticide			
Methoxychlor	50.00	50.00	Passed
do	50.00	50.00	Passed
do	50.00	48.93	Passed
Geigy Agricultural Chemicals			
Geigy Methoxychlor "50" Dust			
Methoxychlor	50.00	50.00	Passed
Ralston Purina Company			
Purina Dairy Cattle Dust			
Methoxychlor	10.00	10.43	Passed
do	10.00	10.72	Passed
do	10.00	10.22	Passed
do	10.00	10.29	Passed
Rigo Manufacturing Company			
Kill-Ko Methoxychlor Dairy Cattle Dust			
Methoxychlor	10.00	5.21	Deficient
Southern Agricultural Insecticides, Inc.			
SA-50 Brand 10% Marlate Dust			
Methoxychlor	5.00	5.43	Passed
METHOXYCHLOR—ALLETHRIN			
Rexall Drug Company			
Elkays Insecticide			
Methoxychlor	3.00	3.43	Passed
Allethrin	0.12	Present	
METHOXYCHLOR—ALLETHRIN—DDT—PIPERONYL BUTOXIDE			
Boyle-Midway, Inc.			
Black Flag Push-Button Insect Bomb			
Methoxychlor	1.00		Passed
Allethrin	0.22	Present	
DDT	1.00		
Piperonyl butoxide	0.25	0.20	
Theoretical chlorine	0.80	0.91	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
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(Black Flag Push-Button Insect Bomb continued)

Methoxychlor	1.00		Passed
Allethrin	0.22	Present	
DDT	1.00		
Piperonyl butoxide	0.25		
Theoretical chlorine	0.80		
		0.20	
		1.13	

METHOXYCHLOR—ARAMITE—DDT—FERBAM—SULFUR**Swift and Company**

End-O-Pest Tree Spray

Methoxychlor	10.00		Deficient
Aramite	1.20		
DDT	5.00		
Ferric dimethyl dithiocarbamate	10.00	8.85	
Sulfur	30.00	31.25	
Theoretical chlorine	5.67	5.46	

METHOXYCHLOR—BHC—FERBAM—ZIRAM

California Spray-Chemical Corporation
(Now: California Chemical Company—Ortho Div.)

Ortho Botano Multi-Purpose Control

Methoxychlor	5.00		Deficient Not Registered
Gamma isomer of BHC	1.00		
Ferric dimethyl dithiocarbamate	3.00		
Zinc dimethyl dithiocarbamate	3.00		
Theoretical chlorine	2.25	2.55	
Theoretical dithiocarbamate	3.14	2.71	

METHOXYCHLOR—BHC—SULFUR**Ralston Purina Company**

Purina Insect Killer

Methoxychlor	2.50		Passed
Gamma isomer of BHC	0.50		
Sulfur	10.00	10.92	
Theoretical chlorine	1.13	1.24	
Methoxychlor	2.50		Passed
Gamma isomer of BHC	0.50		
Sulfur	10.00	10.78	
Theoretical chlorine	1.13	1.24	
Methoxychlor	2.50		Passed
Gamma isomer of BHC	0.50		
Sulfur	10.00	11.00	
Theoretical chlorine	1.13	1.12	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
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METHOXYCHLOR—CAPTAN—MALATHION**Acme Quality Paints, Inc.**

Acme Fruit Tree Spray

Methoxychlor	12.00		Deficient
Captan	12.00		
Malathion	6.00	4.81	
Theoretical chlorine	7.90	8.56	

California Spray-Chemical Corporation

(Now: California Chemical Company—Ortho Div.)

Ortho Dog Powder

Methoxychlor	2.00		Passed
Captan	5.00		
Malathion	2.00	2.29	
Theoretical chlorine	2.38	2.41	
Methoxychlor	2.00		Deficient
Captan	5.00		
Malathion	2.00	1.09	
Theoretical chlorine	2.38	2.48	
Methoxychlor	2.00		Passed
Captan	5.00		
Malathion	2.00	2.08	
Theoretical chlorine	2.38	2.75	

Ortho Home Orchard Spray

Methoxychlor	15.00		Passed
Captan	15.00		
Malathion	7.50	8.41	
Theoretical chlorine	9.87	10.64	
Methoxychlor	15.00		Passed
Captan	15.00		
Malathion	7.50	7.86	
Theoretical chlorine	9.87	10.47	

Rigo Manufacturing Company

Kill-Ko 3 in 1 Garden Dust

Methoxychlor	5.00		Passed
Captan	4.00		
Malathion	4.00	4.54	
Theoretical chlorine	2.94	3.45	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
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Science Products Company, Inc.**Science Fruit Tree and Berry Spray**

Methoxychlor	19.75		Deficient
Captan	15.00		
Malathion	7.50	6.43	
Theoretical chlorine	11.31	11.63	
Methoxychlor	19.75		Deficient
Captan	15.00		
Malathion	7.50	6.77	
Theoretical chlorine	11.31	11.71	

METHOXYCHLOR—COPPER**E. I. du Pont de Nemours and Company****Du Pont Tomato Dust**

Methoxychlor	5.00	4.50	Deficient
Copper	6.75	7.69	
Methoxychlor	5.00	4.45	Deficient
Copper	6.75	7.67	

METHOXYCHLOR—COPPER—FERBAM—ROTENONE**United Cooperatives, Inc.**

(Registered by—Farmers Cooperative Exchange, Inc.)

Unico Garden Spray Powder

Methoxychlor	5.00	5.07	Passed
Copper	7.00	7.13	
Ferric dimethyl dithiocarbamate	5.00	5.43	
Rotenone	1.00	Present	
Methoxychlor	5.00	4.79	Deficient
Copper	7.00	6.73	
Ferric dimethyl dithiocarbamate	5.00	3.81	
Rotenone	1.00	Present	

**METHOXYCHLOR—DDT—PIPERONYL BUTOXIDE—
PYRETHRINS—ROTENONE****Boyle-Midway, Inc.****Black Flag House and Garden Insect Killer**

Methoxychlor	1.00		Passed
DDT	1.00		
Piperonyl butoxide	0.25	0.25	
Pyrethrins	0.20	0.20	
Rotenone	0.10	Present	
Theoretical chlorine	0.80	0.91	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
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Black Flag House and Garden Insect Killer (Continued)

Methoxychlor	1.00		Passed
DDT	1.00		
Piperonyl butoxide	0.25	0.24	
Pyrethrins	0.20	0.28	
Rotenone	0.10	Present	
Theoretical chlorine	0.80	1.23	
Methoxychlor	1.00		Passed
DDT	1.00		
Piperonyl butoxide	0.25	0.25	
Pyrethrins	0.20	0.30	
Rotenone	0.10	Present	
Theoretical chlorine	0.80	1.14	

**METHOXYCHLOR—DDT—ORGANIC THIOCYANATES—
PIPERONYL BUTOXIDE—PYRETHRINS****Union Drug Company
(Now: Walgreen Company)**

Super Insect Bomb

Methoxychlor	0.75		Passed
DDT	3.00		
Beta butoxy beta thiocyano diethyl ether	0.40	Present	
Piperonyl butoxide	0.1875	0.17	
Pyrethrins	0.0468	0.11	
Theoretical chlorine	1.73	2.23	

**METHOXYCHLOR—DICHLONE—KARATHANE—
PYRETHRINS—ROTENONE****Swift and Company**

End-O-Pest Rose and Garden Spray

Methoxychlor	0.30		Passed
Dichlone (2, 3-Dichloro-1, 4-naph- thoquinone)	0.12		
Karathane	0.125		
Pyrethrins	0.02	0.05	
N-Octyl bicycloheptene dicarboxi- mide	0.30		
Rotenone	0.10	Present	
Theoretical chlorine	0.13	0.15	
Theoretical nitrogen	0.023	0.06	

METHOXYCHLOR—FERBAM—ROTENONE—ZIRAM**Acme Quality Paints, Inc.**

Acme All Round Dust

Methoxychlor	5.00	5.00	Passed
Ferric dimethyl dithiocarbamate ..	4.00		
Rotenone	0.75	Present	
Zinc dimethyl dithiocarbamate	4.00		
Theoretical dithiocarbamate	4.18	4.13	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
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METHOXYCHLOR—FERBAM—ROTENONE—SULFUR**E. I. du Pont de Nemours and Company**

Du Pont Floral Dust

Methoxychlor	5.00	4.79	Passed
Ferric dimethyl dithiocarbamate	7.60	8.59	
Rotenone	0.75	Present	
Sulfur	26.20	28.07	

METHOXYCHLOR—FERBAM—SULFUR**E. I. du Pont de Nemours and Company**

Du Pont Fruit Tree Spray

Methoxychlor	12.50	13.11	Passed
Ferric dimethyl dithiocarbamate	15.20	15.08	
Sulfur	24.20	25.40	

**METHOXYCHLOR—HEXACHLOROPHENE—
PIPERONYL BUTOXIDE—PYRETHRINS****The R. T. French Company**

Shoo Flea by French

Methoxychlor	0.50		Passed
Hexachlorophene	0.10		
Piperonyl butoxide	0.48	0.54	
Pyrethrins	0.06	0.07	
Theoretical chlorine	0.20	0.20	
Methoxychlor	0.50		Passed
Hexachlorophene	0.10		
Piperonyl butoxide	0.48	0.41	
Pyrethrins	0.06	0.08	
Theoretical chlorine	0.20	0.23	
Methoxychlor	0.50		Passed
Hexachlorophene	0.10		
Piperonyl butoxide	0.48	0.53	
Pyrethrins	0.06	0.08	
Theoretical chlorine	0.20	0.20	

METHOXYCHLOR—MALATHION**Agricultural Specialties**

M and M Dairy Cattle Dust

Methoxychlor	5.00	3.91	Deficient
Malathion	4.00	3.66	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
Farmers Cooperative Exchange, Inc.			
FCX Bean Dust			
Methoxychlor	3.00	3.34	Deficient
Malathion	3.00	2.00	
Methoxychlor	3.00	4.18	Passed
Malathion	3.00	2.90	
Methoxychlor	3.00	3.48	Passed
Malathion	3.00	2.95	
Methoxychlor	3.00	3.00	Deficient
Malathion	3.00	2.82	

Science Products Company, Inc.

Science Garden Insect Spray

Methoxychlor	25.00	25.16	Passed
Malathion	25.00	26.86	

United Cooperatives, Inc.

(Registered by—Farmers Cooperative Exchange, Inc.)

Unico 1 Estate Insecticide

Methoxychlor	16.00	16.27	Deficient
Malathion	16.00	12.74	

METHOXYCHLOR—MALATHION—SULFUR—ZINEB**Rigo Manufacturing Company**

Kill-Ko Rose Dust

Methoxychlor	5.00	5.18	Passed
Malathion	4.00	4.12	
Sulfur	30.00	31.73	
Zinc ethylene bisdithiocarbamate ..	3.13	4.55	

METHOXYCHLOR—ORGANIC THIOCYANATES**The Douglas Chemical Company, Inc.**

Douglas "88" Improved Farm Bin Spray

Methoxychlor	3.75	3.24	Deficient
Beta butoxy beta thiocyno diethyl ether	1.60	Present	
Methoxychlor	3.75	4.19	Passed
Beta butoxy beta thiocyno diethyl ether	1.60	2.34	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
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METHOXYCHLOR—ORGANIC THIOCYANATES— PIPERONYL BUTOXIDE—PYRETHRINS

California Spray-Chemical Corporation (Now: California Chemical Company—Ortho Div.)

Ortho Fly Spray

Methoxychlor	0.50	0.66	Passed
Thanite	0.30	Present	
Piperonyl butoxide	0.50	0.43	
Pyrethrins	0.05	0.11	
Methoxychlor	0.50	0.56	Passed
Thanite	0.30	Present	
Piperonyl butoxide	0.50	0.45	
Pyrethrins	0.05	0.06	

S. C. Johnson and Son, Inc.

Raid Flying Insect Killer

Methoxychlor	3.00	3.47	Passed
Thanite	2.00	2.68	
Piperonyl butoxide	0.50	0.41	
Pyrethrins	0.10	0.30	

METHOXYCHLOR—PIPERONYL BUTOXIDE—PYRETHRINS

Colgate-Palmolive Company

Colgate's New Kan-Kill Aerosol Bug Killer

Methoxychlor	2.00	2.19	Passed
Piperonyl butoxide	1.00	1.17	
Pyrethrins	0.20	0.20	

Gulf Oil Corporation

Quick Action Gulfspray Contains 0.08% Pyrethrins

Methoxychlor	0.75	0.84	Passed
Piperonyl butoxide	0.12	0.10	
Pyrethrins	0.08	0.12	

Quick Action Gulf Spray

Methoxychlor	0.75	0.88	Passed
Piperonyl butoxide	0.12	0.12	
Pyrethrins	0.10	0.09	

Gulf Spray Aerosol

Methoxychlor	2.00	2.25	Passed
Piperonyl butoxide	1.00	1.12	
Pyrethrins	0.25	0.30	
Methoxychlor	2.00	2.10	Passed
Piperonyl butoxide	1.00	1.04	
Pyrethrins	0.25	0.24	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
Gulf Spray Aerosol (Continued)			
Methoxychlor	2.00	2.55	Passed
Piperonyl butoxide	1.00	0.85	
Pyrethrins	0.25	0.26	

Hot Shot Quality Products, Inc.

House and Garden Bug Killer

Methoxychlor	2.00	2.01	Passed
Piperonyl butoxide	0.30	0.29	
Pyrethrins	0.20	0.21	
Methoxychlor	2.00	2.12	Passed
Piperonyl butoxide	0.30	0.30	
Pyrethrins	0.20	0.20	

S. C. Johnson and Sons, Inc.

Raid House and Garden Bug Killer

Methoxychlor	2.00	2.27	Passed
Piperonyl butoxide	1.00	0.88	
Pyrethrins	0.20	0.26	

Penola Oil Company

Flit Aerosol House and Garden Insect Killer

Methoxychlor	2.00	2.83	Passed
Piperonyl butoxide	1.00	1.59	
Pyrethrins	0.20	0.31	
Methoxychlor	2.00	2.16	Passed
Piperonyl butoxide	1.00	2.47	
Pyrethrins	0.20	0.23	
Methoxychlor	2.00	2.28	Passed
Piperonyl butoxide	1.00	0.95	
Pyrethrins	0.20	0.27	

**METHOXYCHLOR—PIPERONYL BUTOXIDE—
PYRETHRINS—ROTENONE****Carbola Chemical Company, Inc.**

Carbola New Home and Garden Insect Bomb

Methoxychlor	2.00	2.15	Passed
Piperonyl butoxide	1.00	1.13	
Pyrethrins	0.20	0.26	
Rotenone	0.15	Present	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
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METHOXYCHLOR—ROTENONE**Pratt Laboratories, Inc.**

Pratts Lice Killer

Methoxychlor	0.50	0.50	Passed
Rotenone	1.00	1.10	

METHOXYCHLOR—ROTENONE—SULFUR—ZINEB**J. M. Harris and Company**

Dragon Vegetable Dust

Methoxychlor	5.00	5.00	Passed
Rotenone	0.75	0.58	
Sulfur	10.00	10.59	
Zinc ethylene bisdithiocarbamate ..	5.00	5.43	

NEMAGON**Carter Insecticide and Chemical Company, Inc.**

Carolina Brand Nemagon S-1

1, 2-Dibromo-3-chloropropane and other halogenated C ₃ compounds.	47.20	42.81	Deficient
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W. R. Peele Company, Inc.

Pelco 30% Nemagon Granules

1, 2-Dibromo-3-chloropropane and other halogenated C ₃ compounds..	31.00	28.03	Deficient
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Taylor Chemical Company

Superkill 30% Granulated Nemagon

1, 2-Dibromo-3-chloropropane and other halogenated C ₃ compounds..	30.00	31.29	Passed
1, 2-Dibromo-3-chloropropane and other halogenated C ₃ compounds..	30.00	31.51	Passed

PARADICHLOROBENZENE**Merck and Company, Inc.**

Di-Chloricide Moth Crystals

Paradichlorobenzene	100.00	100.00	Passed
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Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
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B. G. Pratt Company

Para-Scalecide for Borers

Paradichlorobenzene	12.60	12.14	Passed
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Reliable Chemical Company

Para-Zene

Paradichlorobenzene	100.00	98.57	Not Registered
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PARATHION—SULFUR**California Spray-Chemical Corporation**

(Now: California Chemical Company—Ortho Div.)

Ortho Parathion-Sulfur 3.75-70 Wettable

Parathion	3.75	4.57	Passed
Sulfur	70.00	70.00	

Southern Agricultural Chemicals, Inc.

Royal Brand 3.75% Parathion and 70% Sulfur

Parathion	3.75	4.31	Passed
Sulfur	70.00	67.35	

Southern Agricultural Insecticides, Inc.

SA-50 Brand Parathion with Sulfur

Parathion	2.00	2.40	Passed
Sulfur	25.00	24.34	

Taylor Chemical Company

Superkill Peach Dust No. 1

Parathion	1.50	1.63	Passed
Sulfur	80.00	79.80	

Superkill Peach Spray No. 2

Parathion	3.70	4.18	Passed
Sulfur	75.00	75.60	

PARATHION—SULFUR—ZINC**Taylor Chemical Company**

Superkill Peach Spray No. 6

Parathion	2.73	2.73	Passed
Sulfur	54.50	55.93	
Zinc as metallic	14.54	14.17	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
PERTHANE			
S. C. Johnson and Son, Inc.			
Raid Moth Proofer			
Perthane	5.00	5.43	Passed
Mike, Inc.			
101 Brand Cabbage Dust No. 6			
Perthane	6.00	6.34	Passed
PERTHANE—DDVP			
Agricultural Specialties			
Malrin 576 Sugar Bait			
Perthane	2.00		Passed
DDVP (Dimethyl dichloro vinyl phosphate)	0.20		
Theoretical chlorine	0.53	0.68	
Perthane	2.00		Passed
DDVP (Dimethyl dichloro vinyl phosphate)	0.20		
Theoretical chlorine	0.53	0.55	
PHENOLS—BHC—MALATHION—NEUTRAL OILS			
Carbola Chemical Company, Inc.			
Carbola Disinfecting White Paint for Cattle, Poultry, Dogs, Garbage Cans, Toilets			
Phenols	1.60	1.84	Passed
Gamma isomer of BHC	0.22	0.23	
Malathion	0.66	0.35	
Neutral oils	1.40	2.53	
Phenols	1.60	2.24	Passed
Gamma isomer of BHC	0.22	0.27	
Malathion	0.66	0.49	
Neutral oils	1.40	2.58	
Carbola The Disinfecting White Paint Kills Flies, Mosquitoes, Spiders, Lice, Fleas			
Phenols	1.60	1.63	Passed
Gamma isomer of BHC	0.22	0.24	
Malathion	0.66	0.61	
Neutral oils	1.40	1.37	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
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PHENOLS—NEUTRAL OILS**Dr. Hess and Clark, Inc.**

Hess and Clark Dip and Disinfectant

Phenols	14.00	15.67	Passed
Neutral oils	56.00	55.01	

United Cooperatives, Inc.

(Registered by—Farmers Cooperative Exchange, Inc.)

Unico Stock Dip and Disinfectant

Cresylic acids	12.00	13.77	Passed
Neutral oils	60.00	59.36	

Whitmoyer Laboratories, Inc.

Whitmoyer Cresonal

Phenols	—	13.07	Misbranded
Neutral oils	—	64.34	

PIVAL**Ralston Purina Company**

Purina Rat Control

Pival (2 Pivalyl-1, 3 indandione) ..	0.025	0.027	Passed
do	0.025	0.024	Passed

Purina Rat Kill

Sodium salt of 2 pivalyl 1, 3 indan- dione	0.0275	0.025	Passed
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PYRETHRINS**The Dill Company**

Dill Spray (Kills Moths, Flies and Mosquitoes)

Pyrethrins	0.05	0.06	Passed
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McCormick and Company, Inc.

Bee Brand Insect Powder

Pyrethrins	0.75	0.73	Passed
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PYRETHRINS—ALLETHRIN—PIPERONYL BUTOXIDE**Reefer-Galler, Inc.**

Pressurized SLA Cedarized Spray

Pyrethrins	0.15	0.16	Passed
Allethrin	0.15	Present	
Piperonyl butoxide	0.50	0.44	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
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PYRETHRINS—DIAZINON—PIPERONYL BUTOXIDE**Colonial Products, Inc.**

Colonial RCS Residual Contact Spray

Pyrethrins	0.052	0.050	Passed
Diazinon (O, O-diethyl O-(2-isopropyl-4-methyl-6-pyrimidinyl) phosphorothioate)	0.50	0.66	
Piperonyl butoxide	0.261	0.16	

Ralston Purina Company

Purina Roach Bomb

Pyrethrins	0.05	0.14	Passed
Diazinon (O, O-diethyl O-(2-isopropyl-4-methyl-6-pyrimidinyl) phosphorothioate)	0.50		
Piperonyl butoxide	0.10	0.076	
N-octyl bicycloheptene dicarboximide	0.17		
Theoretical nitrogen	0.054	0.084	

Taylor Chemical Company

Superkill New Roach and Ant Killer

Pyrethrins	0.05	0.05	Passed
Diazinon (O, O-diethyl O-(2-isopropyl-4-methyl-6-pyrimidinyl) phosphorothioate)	0.50		
Piperonyl butoxide	0.10	0.073	
N-octyl bicycloheptene dicarboximide	0.17		
Theoretical nitrogen	0.054	0.083	
Pyrethrins	0.05	0.15	Passed
Diazinon (O, O-diethyl O-(2-isopropyl-4-methyl-6-pyrimidinyl) phosphorothioate)	0.50		
Piperonyl butoxide	0.10	0.073	
N-octyl bicycloheptene dicarboximide	0.17		
Theoretical nitrogen	0.054	0.11	

PYRETHRINS—ORGANIC THIOCYANATES**Cook Chemical Company**

Real Kill Fly and Mosquito Killer Bomb

Pyrethrins	0.20	0.20	Passed
Beta butoxy beta thiocyno diethyl ether	0.50	Present	
Pyrethrins	0.20	0.23	Passed
Beta butoxy beta thiocyno diethyl ether	0.50	Present	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
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**PYRETHRINS—ORGANIC THIOCYANATES—
PIPERONYL BUTOXIDE**

Ralston Purina Company

Purina Dairy Spray

Pyrethrins	0.03	0.07	Passed
Beta butoxy beta thiocyano diethyl ether	1.00	Present	
Piperonyl butoxide	0.24	Present	
Pyrethrins	0.03	0.08	Passed
Beta butoxy beta thiocyano diethyl ether	1.00	Present	
Piperonyl butoxide	0.24	Present	

PYRETHRINS—PERTHANE

Ralston Purina Company

Purina Home Spray

Pyrethrins	0.03	0.03	Passed
Perthane	1.00	1.14	

PYRETHRINS—PIPERONYL BUTOXIDE

The Great Atlantic and Pacific Tea Company

New Bright Sail Aerosol Insect Killer

Pyrethrins	0.30	0.44	Passed
Piperonyl butoxide	0.60	0.52	
Pyrethrins	0.30	0.30	Passed
Piperonyl butoxide	0.60	0.66	
Pyrethrins	0.30	0.39	Passed
Piperonyl butoxide	0.60	0.52	

**California Spray-Chemical Corporation
(Now: California Chemical Company—Ortho Div.)**

Ortho Dairy and Stock Fly Spray

Pyrethrins	0.03	0.09	Passed
Piperonyl butoxide	0.25	0.23	

The Dill Company

Dill Spray Aerosol Insect Killer

Pyrethrins	0.25	0.27	Passed
Piperonyl butoxide	1.50	1.51	
Pyrethrins	0.25	0.15	Passed
Piperonyl butoxide	1.50	1.24	

Dill Spray Insect Killer

Pyrethrins	0.25	0.51	Passed
Piperonyl butoxide	2.00	2.51	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
Douglas Chemical Company			
Douglas Special Mill Spray			
Pyrethrins	0.14	0.14	Passed
Piperonyl butoxide	1.39	1.41	
Hot Shot Quality Products, Inc.			
Hot Shot Insect Killer			
Pyrethrins	0.10	0.12	Passed
Piperonyl butoxide	0.15	0.14	
Pyrethrins	0.10	0.13	Passed
Piperonyl butoxide	0.15	0.12	
Pyrethrins	0.10	0.14	Passed
Piperonyl butoxide	0.15	0.13	
Hot Shot Fly and Mosquito Insect Killer			
Pyrethrins	0.25	0.24	Passed
Piperonyl butoxide	0.375	0.374	
S. C. Johnson and Son, Inc.			
Raid House and Garden Bug Killer			
Pyrethrins	0.25	0.26	Passed
Piperonyl butoxide	0.80	0.77	
Pyrethrins	0.25	0.30	Passed
Piperonyl butoxide	0.80	0.76	
Pyrethrins	0.25	0.30	Passed
Piperonyl butoxide	0.80	0.77	
Ralston Purina Company			
Purina Weevil and Moth Spray			
Pyrethrins	0.50	0.57	Passed
Piperonyl butoxide	5.00	4.67	
Rigo Manufacturing Company, Inc.			
Kill-Ko Kattle Spray			
Pyrethrins	0.03	0.05	Passed
Piperonyl butoxide	0.30	0.18	
Southern Agricultural Insecticides, Inc.			
SA-50 Brand Insect Spray			
Pyrethrins	0.074	0.13	Passed
Piperonyl butoxide	0.374	0.44	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
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Swift and Company

Swift's Gold Bear Brand Livestock Spray No. 1

Pyrethrins	0.03	0.068	Passed
Piperonyl butoxide	0.15	0.13	

United Cooperatives, Inc.

(Registered by—Farmers Cooperative Exchange, Inc.)

Unico Py-Tab Stock Fly Spray

Pyrethrins	0.03	0.04	Passed
Piperonyl butoxide	0.25	0.36	
Pyrethrins	0.03	0.058	Passed
Piperonyl butoxide	0.25	0.33	

Unico Stock Fly Spray

Pyrethrins	0.035	0.057	Passed
Piperonyl butoxide	0.30	0.32	

**PYRETHRINS—PIPERONYL BUTOXIDE—
TERPENE POLYCHLORINATES****Colgate-Palmolive Company**

Kan-Kil Aerosol Fly and Mosquito Killer

Pyrethrins	0.20	0.24	Passed
Piperonyl butoxide	0.50	0.52	
Terpene polychlorinates	2.00	2.26	
Pyrethrins	0.20	0.22	Passed
Piperonyl butoxide	0.50	0.52	
Terpene polychlorinates	2.00	2.09	

Dr. Hess and Clark, Inc.

Hess Bomb with Dramatic Strobane

Pyrethrins	0.20	1.20	Passed
Piperonyl butoxide	0.80	1.87	
Terpene polychlorinates	2.00	2.31	
Pyrethrins	0.20	0.20	Passed
Piperonyl butoxide	0.80	0.64	
Terpene polychlorinates	2.00	1.95	

ROTENONE**Acme Quality Paints, Inc.**

Acme Garden Guard

Rotenone	1.00	0.65	Deficient
do	1.00	0.69	Deficient

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
Allied Drug Products Company			
Dr. Thatcher's Flea Powder			
Rotenone	1.75	1.72	Passed
Black Leaf Products Company			
Black Leaf 1% Rotenone Garden Dust			
Rotenone	1.00	0.92	Passed
Carbola Chemical Company, Inc.			
Carbola Garden Rote			
Rotenone	0.75	0.37	Deficient
Carolina Chemicals, Inc.			
Flight Brand Bean Beetle Dust			
Rotenone	1.00	0.82	Passed
do	1.00	0.75	Deficient
Daly-Herring Company			
Dee Aitch 1.00% Rotenone Dust			
Rotenone	1.00	0.80	Passed
do	1.00	1.05	Passed
do	1.00	0.92	Passed
do	1.00	0.80	Passed
do	1.00	0.99	Passed
do	1.00	0.87	Passed
do	1.00	1.05	Passed
Farmers Cooperative Exchange, Inc.			
FCX Rotox "100" Dust			
Rotenone	1.00	0.97	Passed
do	1.00	0.81	Passed
do	1.00	0.80	Passed
do	1.00	0.85	Passed
do	1.00	1.01	Passed
do	1.00	0.80	Passed
FCX 5% Rotenone Wettable Powder			
Rotenone	5.00	4.28	Deficient
Dr. Hess and Clark, Inc.			
Hess and Clark Louse Killer			
Rotenone	0.50	0.48	Passed
Dr. Hess Cattle Grub Killer			
Rotenone	1.50	1.49	Passed
do	1.50	1.30	Passed

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
Dr. L. D. LeGear Medicine Company (Now: Dr. LeGear, Inc.)			
Dr. LeGear's Grub Dust			
Rotenone	1.66	1.43	Passed
Maxwell Insecticide Company, Inc.			
Maxwell 1% Rotenone Dust			
Rotenone	1.00	1.10	Passed
do	1.00	1.32	Passed
Olin Mathieson Chemical Corporation			
Mathieson Rotenone 1% Dust			
Rotenone	1.00	1.11	Passed
do	1.00	0.99	Passed
Pennington Grain and Seed Store (Registered by—Stephenson Chemical Company, Inc.)			
Pennington Brand 1.00% Rotenone			
Rotenone	1.00	0.73	Deficient
Quality Chemical Corporation			
Rotenone 1% Dust			
Rotenone	1.00	0.76	Deficient
do	1.00	0.72	Deficient
do	1.00	0.72	Deficient
do	1.00	0.62	Deficient
do	1.00	0.74	Deficient
do	1.00	0.74	Deficient
do	1.00	0.92	Passed
do	1.00	0.92	Passed
do	1.00	0.81	Passed
do	1.00	0.86	Passed
do	1.00	0.83	Passed
do	1.00	0.97	Passed
Rigo Manufacturing Company, Inc.			
Kill-Ko 1% Rotenone Bean Beetle Dust			
Rotenone	1.00	0.97	Passed
Seacoast Laboratories, Inc.			
Twin Light Dustall Rotenone Dust 1%			
Rotenone	1.00	0.77	Deficient
do	1.00	0.75	Deficient

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
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Taylor Chemical Company

Superkill 1% Rotenone Dust for Beans

Rotenone	1.00	0.50	Deficient
do	1.00	0.76	Deficient

Woolfolk Chemical Works, Ltd.

Mexide 1% Rotenone Dust

Rotenone	1.00	0.80	Passed
do	1.00	0.82	Passed

ROTENONE—DDT—FERBAM—SULFUR—ZIRAM**United Cooperatives, Inc.**

(Registered by—Farmers Cooperative Exchange, Inc.)

Unico Rose and Floral Spray Powder

Rotenone	1.00	Present	Passed
DDT	5.00	4.96	
Ferric dimethyl dithiocarbamate	3.80		
Sulfur	30.00	31.35	
Zinc dimethyl dithiocarbamate	3.50		
Theoretical dithiocarbamate	3.83	3.86	

ROTENONE—DDT—SULFUR—ZIRAM**Acme Quality Paints, Inc.**

Acme All Round Spray, Flowers—Fruits—Vegetables

Rotenone	0.75	0.55	Passed
DDT	5.00	4.75	
Sulfur	20.00	23.85	
Zinc dimethyl dithiocarbamate	15.00	15.07	

**ROTENONE—METHYLENE BIS (4 CHLOROPHENOL)—
METHYLENE BIS (3, 4, 6 TRICHLOROPHENOL)—
PYRETHRINS****Dr. L. D. LeGear Medicine Company**

(Now: Dr. LeGear, Inc.)

Dr. LeGear's Flea and Tick Spray

Rotenone	0.30	Present	Passed
Methylene bis (4 chlorophenol)	0.15		
Methylene bis (3, 4, 6 trichloro- phenol)	0.10		
Pyrethrins	0.10	0.11	
Theoretical chlorine	0.09	0.09	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
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ROTENONE—ORGANIC THIOCYANATES—SULFUR**Black Panther Dust**

Rotenone	0.75	0.65	Passed
Beta beta dithiocyanodiethyl ether..	0.20	Present	
Sulfur	10.00	11.49	
Rotenone	0.75	0.75	Passed
Beta beta dithiocyanodiethyl ether..	0.20	Present	
Sulfur	10.00	10.86	
Rotenone	0.75	0.64	Passed
Beta beta dithiocyanodiethyl ether..	0.20	Present	
Sulfur	10.00	11.35	
Rotenone	0.75	0.75	Passed
Beta beta dithiocyanodiethyl ether..	0.20	Present	
Sulfur	10.00	10.44	
Rotenone	0.75	0.58	Passed
Beta beta dithiocyanodiethyl ether..	0.20	Present	
Sulfur	10.00	10.41	

The Parrott Chemical Company**Lucky Strike Bettie-Buster Formula #100**

Rotenone	0.75	0.77	Not Registered
Beta thiocyno ethyl esters of ali- phatic fatty acids—10 to 18 car- bon atoms	1.00	Present	
Sulfur	15.00	17.14	

ROTENONE—PIPERONYL BUTOXIDE—PYRETHRINS**Boyle-Midway, Inc.****Antrol African Violet and House Plant Insect Bomb**

Rotenone	0.14	Present	Passed
Piperonyl butoxide	0.25	0.23	
Pyrethrins	0.025	0.08	
Rotenone	0.14	Present	Passed
Piperonyl butoxide	0.25	0.26	
Pyrethrins	0.025	0.077	

ROTENONE—PIPERONYL BUTOXIDE—PYRETHRINS—SULFUR**Planters Chemical Corporation****P.D.Q. Bean and Garden Dust**

Rotenone	0.40	0.24	Passed
Piperonyl butoxide	0.37	0.29	
Pyrethrins	0.03	0.09	
Sulfur	10.00	10.36	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
P.D.Q. Bean and Garden Dust (Continued)			
Rotenone	0.40	0.24	Passed
Piperonyl butoxide	0.37	0.27	
Pyrethrins	0.03	0.055	
Sulfur	10.00	10.33	
Rotenone	0.40	0.30	Passed
Piperonyl butoxide	0.37	0.38	
Pyrethrins	0.03	0.15	
Sulfur	10.00	9.73	

ROTENONE—PIPERONYL CYCLONENE—PYRETHRINS

California Spray-Chemical Corporation (Now: California Chemical Company—Ortho Div.)

Ortho Indoor Plant Bomb

Rotenone	0.13	Present	Passed
Piperonyl cyclonene	0.25	Present	
Pyrethrins	0.02	0.18	

ROTENONE—PYRETHRINS—SULFUR

Southern Agricultural Chemicals, Inc.

Royal Brand Garden Dust

Rotenone	0.50	0.37	Passed
Pyrethrins	0.035	0.29	
Sulfur	18.00	Present	

Southern Agricultural Insecticides, Inc.

SA-50 Brand Grower Dust for Mexican Bean Beetles

Rotenone	0.50	0.48	Passed
Pyrethrins	0.08	0.09	
Sulfur	18.00	18.60	

SA-100 Dust for Mexican Bean Beetles

Rotenone	1.00	0.74	Deficient
Pyrethrins	0.08	0.12	
Sulfur	18.00	20.45	
Rotenone	1.00	0.75	Deficient
Pyrethrins	0.08	0.32	
Sulfur	18.00	17.45	
Rotenone	1.00	0.84	Passed
Pyrethrins	0.08	0.10	
Sulfur	18.00	18.75	
Rotenone	1.00	0.96	Passed
Pyrethrins	0.08	0.15	
Sulfur	18.00	18.33	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
(SA-100 Dust for Mexican Bean Beetles continued)			
Rotenone	1.00	0.81	Passed
Pyrethrins	0.08	0.28	
Sulfur	18.00	18.32	
Rotenone	1.00	0.81	Passed
Pyrethrins	0.08	0.23	
Sulfur	18.00	17.55	
Rotenone	1.00	0.78	Deficient
Pyrethrins	0.08	0.19	
Sulfur	18.00	17.78	

ROTENONE—SULFUR**Cape Fear Chemicals, Inc.**

Tiger Brand 1.0% Rotenone Dust

Rotenone	1.00	0.86	Deficient, Misbranded
Sulfur	20.00	None	

Graham Chemical Company

Graham's Red Star Agricultural Rotenone Dust

Rotenone	1.00	1.05	Passed
Sulfur	15.00	15.30	
Rotenone	1.00	1.07	Passed
Sulfur	15.00	16.14	
Rotenone	1.00	1.10	Passed
Sulfur	15.00	15.08	
Rotenone	1.00	1.06	Passed
Sulfur	15.00	15.09	
Rotenone	1.00	1.02	Passed
Sulfur	15.00	15.82	
Rotenone	1.00	1.00	Passed
Sulfur	15.00	14.45	
Rotenone	1.00	1.15	Passed
Sulfur	15.00	16.53	
Rotenone	1.00	1.14	Passed
Sulfur	15.00	15.54	
Rotenone	1.00	1.23	Passed
Sulfur	15.00	15.93	
Rotenone	1.00	1.24	Passed
Sulfur	15.00	15.60	
Rotenone	1.00	1.18	Passed
Sulfur	15.00	14.91	
Rotenone	1.00	1.07	Passed
Sulfur	15.00	16.19	
Rotenone	1.00	0.93	Passed
Sulfur	15.00	15.22	
Rotenone	1.00	1.14	Passed
Sulfur	15.00	15.05	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
J. M. Harris and Company, Inc.			
Blue Dragon Dust			
Rotenone	0.75	0.63	Passed
Sulfur	10.00	10.82	
Rotenone	0.75	0.67	Passed
Sulfur	10.00	9.81	
Rotenone	0.75	0.60	Passed
Sulfur	10.00	10.60	
Rotenone	0.75	0.62	Passed
Sulfur	10.00	10.64	
Rotenone	0.75	0.69	Passed
Sulfur	10.00	10.05	
Rotenone	0.75	0.68	Passed
Sulfur	10.00	10.75	
Rotenone	0.75	0.71	Passed
Sulfur	10.00	10.47	
Super Dragon 1% Rotenone Dust			
Rotenone	1.00	0.98	Passed
Sulfur	10.00	9.58	
Sam Houston Company			
Houston's Rotenone Sulfur Talc Mixture			
Rotenone	0.75	0.63	Passed
Sulfur	10.00	10.14	
Maxwell Insecticide Company, Inc.			
Maxwell 1% Rotenone Dust			
Rotenone	1.00	0.83	Deficient
Sulfur	15.00	13.66	
Rotenone	1.00	0.92	Deficient
Sulfur	15.00	13.98	
Rotenone	1.00	0.87	Deficient
Sulfur	15.00	13.85	
Rotenone	1.00	0.95	Passed
Sulfur	15.00	14.33	
Rotenone	1.00	0.89	Passed
Sulfur	15.00	14.87	
Rotenone	1.00	0.82	Passed
Sulfur	15.00	14.47	
Rotenone	1.00	0.93	Passed
Sulfur	15.00	14.87	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
Maxwell 1% Rotenone Dust (Continued)			
Rotenone	1.00	1.12	Passed
Sulfur	15.00	14.85	
Rotenone	1.00	0.86	Passed
Sulfur	15.00	14.66	
Rotenone	1.00	0.83	Passed
Sulfur	15.00	14.89	
Maxwell Cattle Grub and Louse Powder			
Rotenone	1.50	1.82	Passed
Sulfur	65.00	63.06	
Rotenone	1.50	1.64	Passed
Sulfur	65.00	62.95	
W. R. Peele Company, Inc.			
Pelco 1% Rotenone Dust			
Rotenone	1.00	0.68	Deficient
Sulfur	15.00	15.10	
Rotenone	1.00	0.81	Passed
Sulfur	15.00	15.07	
Rotenone	1.00	0.80	Passed
Sulfur	15.00	15.25	
Rotenone	1.00	0.80	Passed
Sulfur	15.00	15.42	
Ralston Purina Company			
Purina Lice and Grub Killer			
Rotenone	1.67	1.63	Passed
Sulfur	50.00	50.73	
Rotenone	1.67	1.27	Deficient
Sulfur	50.00	49.40	
Southern Agricultural Insecticides, Inc.			
SA-50 Brand No. 75 Mexican Bean Beetle Dust			
Rotenone	0.75	0.66	Passed
Sulfur	18.00	18.53	
Wyatt-Quarles Seed Company			
Wyatts 1% Rotenone Dust			
Rotenone	1.00	0.71	Deficient
Sulfur	15.00	16.20	
Rotenone	1.00	1.11	Passed
Sulfur	15.00	14.46	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
Wyatts 1% Rotenone Dust (Continued)			
Rotenone	1.00	0.98	Passed
Sulfur	15.00	14.45	
Rotenone	1.00	0.91	Passed
Sulfur	15.00	16.17	
ROTENONE—ZINEB			
Rose Manufacturing Company (Now: Nott Manufacturing Co., Inc.—Rose Manufacturing Div.)			
New Tri-ogen Tomato and Vegetable Garden Dust			
Rotenone	1.00	0.61	Deficient, Not Registered
Zinc ethylene bisdithiocarbamate	3.90	4.36	
SABADILLA			
Cape Fear Chemicals, Inc.			
Tiger Brand 20% Sabadilla Dust			
Sabadilla alkaloids	0.80	0.71	Deficient
Carolina Chemicals, Inc.			
Flight Brand Sabadilla Dust			
Sabadilla alkaloids	0.80	0.74	Deficient
Graham Chemical Company			
Graham's Red Star 20% Sabadilla Dust			
Sabadilla alkaloids	0.80	0.79	Passed
Daly Herring Company			
Dee Aitch 20% Sabadilla Dust			
Sabadilla alkaloids	0.80	0.76	Passed
do	0.80	0.76	Passed
Farmers Cooperative Exchange, Inc.			
FCX Saba-Dil No. 20			
Sabadilla alkaloids	0.80	0.89	Passed
J. M. Harris and Company, Inc.			
Dragon Sabadilla Dust			
Sabadilla alkaloids	0.80	0.83	Passed
do	0.80	0.80	Passed
do	0.80	0.33	Deficient

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
Maxwell Insecticide Company Inc.			
Maxwell 20% Sabadilla Dust			
Sabadilla alkaloids	0.80	0.96	Passed
do	0.80	0.86	Passed
do	0.80	0.97	Passed
W. R. Peele Company, Inc.			
Pelco 20% Sabadilla Dust			
Sabadilla alkaloids	0.80	0.93	Passed
do	0.80	0.90	Passed
do	0.80	0.91	Passed
Quality Chemical Corp.			
Sabadilla 20% Dust			
Sabadilla alkaloids	0.88	0.84	Passed
do	0.88	0.85	Passed
do	0.88	0.72	Deficient
do	0.88	0.77	Deficient
Roanoke-Chowan Chemical Corp.			
Sabadilla 20% Dust			
Sabadilla alkaloids	0.80	0.76	Passed
Stephenson Chemical Company			
Stephenson 20% Sabadilla Dust			
Sabadilla alkaloids	0.80	0.74	Deficient
Taylor Chemical Company			
Superkill 20% Sabadilla Dust			
Sabadilla alkaloids	0.80	0.88	Passed
Woolfalk Chemical Works, Ltd.			
Sabane Dust			
Sabadilla alkaloids	0.80	0.92	Passed
Wyatt Quarles Seed Company			
20% Sabadilla Dust			
Sabadilla alkaloids	0.80	0.89	Passed
do	0.80	0.81	Passed

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
SEVIN			
Taylor Chemical Company			
Super Kill 1¾% Sevin Dust			
Sevin (1-Naphthyl N-methyl carba- mate)	1.75	2.01	Passed
do	1.75	2.58	Passed
do	1.75	1.81	Passed
do	1.75	1.91	Passed
Taylor Cotton Dust Super Kill 7½% Sevin Dust			
Sevin (1-Naphthyl N-methyl carba- mate)	7.50	8.04	Passed
Woolfolk Chemical Works, Ltd.			
Security Brand Sevin Bean Dust			
Sevin (1-Naphthyl N-methyl car- bamate)	1.75	1.86	Passed
do	1.75	2.15	Passed
do	1.75	1.80	Passed
do	1.75	1.86	Passed
do	1.75	2.15	Passed
do	1.75	2.19	Passed
SEVIN—SULFUR			
W. R. Grace and Company			
Daivson Chemical Division			
Naco 1¾% Sevin 50% Sulfur			
Sevin (1-Naphthyl N-methyl carba- mate)	1.75	2.01	Passed
Sulfur	50.00	51.15	
Mike, Inc.			
101 Brand Sevin Bean Dust			
Sevin (1-Naphthyl N-methyl car- bamate)	1.75	1.72	Passed
Sulfur	18.00	18.15	
Woolfolk Chemical Works, Ltd.			
Security Brand 1¾% Sevin-60% Sulfur Bean Dust			
Sevin (1-Naphthyl N-methyl car- bamate)	1.75	2.01	Passed
Sulfur	60.00	63.36	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
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SULFUR**Acme Quality Paints, Inc.**

Acme Wettable Dusting Sulfur

Sulfur	95.00	98.60	Passed
do	95.00	92.47	Passed

Stauffer Chemical Company

Magnetic 70 Sulfur Paste

Sulfur	68.00	68.27	Passed
do	68.00	67.85	Passed

Woolfolk Chemical Works, Ltd.

Security Brand Nutonex Sulfur Wettable

Sulfur	94.00	93.54	Passed
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TERPENE POLYCHLORINATES**Chase Products Company**

Cedarized Moth Proofer

Terpene polychlorinates	5.00	5.47	Passed
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Shulton, Inc.

Bridgeport Moth Proofer Cedarized

Terpene polychlorinates	5.00	4.93	Passed
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TERPENE POLYCHLORINATES—PARADICHLOROBENZENE**Boyle-Midway, Inc.**

Black Flag Moth-Ded

Terpene polychlorinates	5.00		Passed
Paradichlorobenzene	5.00		
Theoretical chlorine	5.71	5.45	

THALLIUM SULFATE**O. E. Linck Company, Inc.**

Tat Mo-Go

Thallium sulfate	1.00	1.86	Passed
do	1.00	1.29	Passed
do	1.00	1.33	Passed

Purple Death

Thallium sulfate	1.00	1.25	Passed
do	1.00	1.13	Passed

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
The Master Products Company			
Rat Stop			
Thallium sulfate	1.00	1.54	Passed
do	1.00	1.27	Passed
do	1.00	1.06	Passed
Nott Manufacturing Company, Inc.			
New Super Mole-Nots			
Thallium sulfate	1.00	0.96	Passed
THIODAN			
Niagara Chemical Division			
Food Machinery and Chemical Corporation			
Thiodan Miscible			
Thiodan (Hexachloro hexahydro methano 2, 4, 3 benzodioxathie- pin—3 oxide	24.00	24.75	Passed
do	24.00	25.22	Passed
TOXAPHENE			
Acme Fertilizer Company			
Acme 20% Toxaphene Insecticide			
Toxaphene	20.00	20.00	Passed
Acme Toxaphene Emulsive			
Toxaphene	60.00	58.05	Passed
California Spray-Chemical Corporation (Now: California Chemical Company—Ortho Div.)			
Ortho Toxaphene 20 Dust			
Toxaphene	20.00	17.14	Deficient
do	20.00	19.57	Passed
do	20.00	20.00	Passed
Cape Fear Chemicals, Inc.			
Tiger Brand 20% Toxaphene Dust			
Toxaphene	20.00	19.85	Passed
Carolina Chemicals, Inc.			
Flight Brand Toxaphene			
Toxaphene	20.00	20.00	Passed

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
Carter Insecticide and Chemical Company, Inc.			
Carolina Toxaphene Emulsion Concentrate			
Toxaphene	60.00	62.71	Passed
do	60.00	63.48	Passed
do	60.00	62.30	Passed
do	60.00	61.44	Passed
Daly-Herring Company			
Dee Aitch 10% Toxaphene Dust			
Toxaphene	10.00	10.07	Passed
Dee Aitch 20% Toxaphene Dust			
Toxaphene	20.00	19.57	Passed
Dee Aitch 60% Toxaphene Emulsifiable Concentrate			
Toxaphene	60.40	60.39	Passed
do	60.40	59.94	Passed
do	60.40	59.80	Passed
Farmers Cooperative Exchange, Inc.			
FCX 20-0 Toxaphene			
Toxaphene	20.00	19.14	Passed
Geigy Agricultural Chemicals			
Gy-Phene "40 W"			
Toxaphene	40.00	41.99	Passed
Maxwell Insecticide Company, Inc.			
Maxwell 20% Toxaphene Dust			
Toxaphene	20.00	20.29	Passed
do	20.00	19.72	Passed
Maxwell Toxaphene Emulsion 60			
Toxaphene	60.40	60.21	Passed
Molony Fertilizer Company			
Lightning Brand 20-0 Toxaphene Cotton Dust			
Toxaphene	20.00	19.43	Passed
Olin Mathieson Chemical Corp.			
Mathieson Toxaphene 6 Lbs. Emulsifiable Concentrate			
Toxaphene	58.80	61.39	Passed
do	60.40	61.03	Passed
do	60.50	60.48	Passed
do	60.50	62.75	Passed

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
W. R. Peele Company, Inc.			
Pelco 20% Toxaphene Dust			
Toxaphene	20.00	20.57	Passed
do	20.00	20.86	Passed
do	20.00	20.43	Passed
Pelco Toxaphene 60-E. C.			
Toxaphene	57.50	59.43	Passed
Planters Chemical Corp.			
Planters 20% Toxaphene Dust			
Toxaphene	20.00	20.29	Passed
Planters Toxaphene 6 Lb. Emulsion Concentrate			
Toxaphene	60.20	60.06	Passed
Quality Chemical Corporation			
Champion 20% Toxaphene Dust			
Toxaphene	20.00	12.14	Deficient
do	20.00	18.86	Deficient
do	20.00	19.57	Passed
do	20.00	20.57	Passed
Southern Agricultural Chemicals, Inc.			
Royal Brand 20% Toxaphene Dust			
Toxaphene	20.00	21.15	Passed
Swift and Company			
Swift's Gold Bear Brand Insecticide Dust V2			
Toxaphene	20.00	20.57	Passed
Swift's Gold Bear Brand Toxaphene V6E			
Toxaphene	56.40	52.16	Deficient
Taylor Chemical Company			
Superkill 20% Toxaphene (without Sulfur) Cotton Dust			
Toxaphene	20.00	20.00	Passed

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
United Cooperatives, Inc. (Registered by—Farmers Cooperative Exchange, Inc.)			
Unico Toxaphene Emulsifiable Concentrate			
Toxaphene	60.00	60.80	Passed
do	60.00	61.02	Passed
do	60.00	61.09	Passed
do	60.00	59.91	Passed
do	60.00	61.36	Passed
Woolfolk Chemical Works, Ltd.			
Security Brand Toxaphene 20% Dust			
Toxaphene	20.00	19.43	Passed
TOXAPHENE—BHC			
Agricultural Specialties			
Lintox-Livestock Spray and Dip			
Toxaphene	45.00		Passed
Gamma isomer of BHC	1.00		
Theoretical chlorine	30.88	30.44	
Ralston Purina Company			
Purina Livestock Spray			
Toxaphene	45.00		Passed
Gamma isomer of BHC	2.70		
Theoretical chlorine	32.13	32.13	
TOXAPHENE—COPPER			
Maxwell Insecticide Company, Inc.			
Maxwell Toxaphene-Copper Dust			
Toxaphene	10.00	10.22	Passed
Copper as metallic	7.00	7.07	
TOXAPHENE—DDT			
California Spray Chemical Corporation (Now: California Chemical Company—Ortho Div.)			
Ortho Toxaphene-DDT-14-7 Dust			
Toxaphene	14.00		Deficient
DDT	7.00		
Theoretical chlorine	12.88	12.06	
Toxaphene	14.00		Passed
DDT	7.00		
Theoretical chlorine	12.88	12.41	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
Carolina Chemicals, Inc.			
Flight Brand Toxaphene-DDT Dust 14-7			
Toxaphene	14.00		Passed
DDT	7.00		
Theoretical chlorine	12.88	12.85	
Toxaphene	14.00		Passed
DDT	7.00		
Theoretical chlorine	12.88	13.04	
Farmers Cooperative Exchange, Inc.			
FCX 14-7 Dust (Toxaphene-DDT)			
Toxaphene	14.00		Passed
DDT	7.00		
Theoretical chlorine	12.88	12.59	
FCX "42" Cotton Spray			
Toxaphene	38.70		Passed
DDT	19.30		
Theoretical chlorine	35.58	36.00	
Howerton, Gowen Company, Inc.			
Gowen 14-7 Cotton Dust			
Toxaphene	14.00		Passed
DDT	7.00		
Theoretical chlorine	12.88	14.11	
Molony Fertilizer Company			
Lightning Brand Dust 14% Toxaphene 7% DDT			
Toxaphene	14.00		Deficient
DDT	7.00		
Theoretical chlorine	12.88	11.25	
Olin Mathieson Chemical Corp.			
Mathieson Toxaphene 14 DDT 7 Dust			
Toxaphene	14.00		Passed
DDT	7.00		
Theoretical chlorine	12.88	15.27	
Mathieson Toxaphene 4-2 Emulsifiable			
Toxaphene	39.50		Passed
DDT	19.70		
Theoretical chlorine	36.32	38.37	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
W. R. Peele Company, Inc.			
Pelco 14-7 Toxaphene DDT Dust			
Toxaphene	14.00	13.13	Passed
DDT	7.00		
Theoretical chlorine	12.88		
Toxaphene	14.00	12.32	Passed
DDT	7.00		
Theoretical chlorine	12.88		
Pelco Toxaphene DDT Emulsion Concentrate			
Toxaphene	40.00	35.15	Passed
DDT	20.00		
Theoretical chlorine	36.80		
Toxaphene	40.00	36.81	Passed
DDT	20.00		
Theoretical chlorine	36.80		
Toxaphene	40.00	36.39	Passed
DDT	20.00		
Theoretical chlorine	36.80		
Toxaphene	40.00	35.70	Passed
DDT	20.00		
Theoretical chlorine	36.80		
Planters Chemical Corporation			
Planters Toxaphene DDT Cotton Dust			
Toxaphene	14.00	13.04	Passed
DDT	7.00		
Theoretical chlorine	12.88		
Toxaphene	14.00	12.50	Passed
DDT	7.00		
Theoretical chlorine	12.88		
Planters Toxaphene-DDT Emulsion Concentrate			
Toxaphene	40.00	32.90	Deficient
DDT	20.00		
Theoretical chlorine	36.80		
Quality Chemical Corporation			
Cotton Special 14% Toxaphene 7% DDT			
Toxaphene	14.00	15.54	Passed
DDT	7.00		
Theoretical chlorine	12.88		
Toxaphene	14.00	12.68	Passed
DDT	7.00		
Theoretical chlorine	12.88		

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
Cotton Special			
Toxaphene	40.00		Passed
DDT	23.00		
Theoretical chlorine	37.30	40.81	
Taylor Chemical Company			
Superkill Cotton Dust 14% Toxaphene 7% DDT			
Toxaphene	14.00		Passed
DDT	7.00		
Theoretical chlorine	12.88	12.86	
Toxaphene	14.00		Passed
DDT	7.00		
Theoretical chlorine	12.88	13.22	
Superkill 4-2 Toxaphene-DDT			
Toxaphene	40.00		Passed
DDT	20.00		
Theoretical chlorine	36.80	37.37	
Woolfolk Chemical Works, Ltd.			
Security Brand Toxaphene-DDT 2-1 Dust			
Toxaphene	14.00		Passed
DDT	7.00		
Theoretical chlorine	12.88	12.50	
TOXAPHENE—DDT—PARATHION			
Farmers Cooperative Exchange, Inc.			
FCX Ten Five One Dust			
Toxaphene	10.00		Passed
DDT	5.00		
Parathion	1.00	0.98	
Theoretical chlorine	9.20	9.23	
TOXAPHENE—PARATHION			
California Spray-Chemical Corporation (Now: California Chemical Company—Ortho Div.)			
Ortho Parathion-Toxaphene 2-10 Dust			
Toxaphene	10.00	9.64	Excessive Active Ingredient
Parathion	2.00	3.10	
Toxaphene	10.00	9.86	Passed
Parathion	2.00	2.21	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
W. R. Grace and Company Davison Chemical Division			
Naco Parathion 10% Toxaphene Dust			
Toxaphene	10.00	9.86	Passed
Parathion	2.00	2.23	
Mike, Inc.			
101 Cabbage Dust			
Toxaphene	10.00	9.72	Passed
Parathion	1.50	1.53	
Southern Agricultural Insecticides, Inc.			
SA-50 Brand Pre Heading Cabbage Dust			
Toxaphene	10.00	10.00	Passed
Parathion	1.50	1.92	
Toxaphene	10.00	10.72	Passed
Parathion	1.50	1.91	
Toxaphene	10.00	11.00	Passed
Parathion	1.50	1.85	
Toxaphene	10.00	10.50	Passed
Parathion	1.50	1.87	
Toxaphene	10.00	10.29	Passed
Parathion	1.50	2.05	
Toxaphene	10.00	9.86	Passed
Parathion	1.50	1.72	
Toxaphene	10.00	10.57	Passed
Parathion	1.50	1.71	
Toxaphene	10.00	10.29	Passed
Parathion	1.50	1.58	
Toxaphene	10.00	10.22	Passed
Parathion	1.50	1.65	
Toxaphene	10.00	10.14	Passed
Parathion	1.50	1.74	
Toxaphene	10.00	10.00	Passed
Parathion	1.50	1.81	
Toxaphene	10.00	9.79	Passed
Parathion	1.50	1.59	
Toxaphene	10.00	10.57	Passed
Parathion	1.50	1.63	
Toxaphene	10.00	9.64	Passed
Parathion	1.50	1.61	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
(SA-50 Brand Pre Heading Cabbage Dust continued)			
Toxaphene	10.00	10.86	Passed
Parathion	1.50	1.78	
Toxaphene	10.00	9.72	Passed
Parathion	1.50	1.88	
Toxaphene	10.00	10.86	Passed
Parathion	1.50	1.72	
Toxaphene	10.00	10.86	Passed
Parathion	1.50	1.78	
Toxaphene	10.00	10.00	Passed
Parathion	1.50	2.16	
Toxaphene	10.00	10.43	Passed
Parathion	1.50	1.76	
Toxaphene	10.00	11.00	Passed
Parathion	1.50	1.92	
Toxaphene	10.00	10.43	Passed
Parathion	1.50	1.62	
Toxaphene	10.00	10.72	Passed
Parathion	1.50	1.59	
SA-50 Brand Pre-Head Dust 2-20			
Toxaphene	20.00	20.72	Passed
Parathion	2.00	2.27	
Toxaphene	20.00	19.72	Passed
Parathion	2.00	2.17	
Toxaphene	20.00	20.57	Passed
Parathion	2.00	3.02	
Toxaphene	20.00	21.43	Passed
Parathion	2.00	2.06	
Toxaphene	20.00	19.43	Passed
Parathion	2.00	1.97	
Toxaphene	20.00	20.72	Passed
Parathion	2.00	2.23	
Toxaphene	20.00	20.00	Passed
Parathion	2.00	2.21	
Toxaphene	20.00	20.00	Passed
Parathion	2.00	2.21	
Toxaphene	20.00	19.43	Passed
Parathion	2.00	2.49	
Toxaphene	20.00	20.57	Passed
Parathion	2.00	2.20	
Toxaphene	20.00	19.57	Passed
Parathion	2.00	2.10	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
SA—50 Brand			
Cabbage Dust (Continued)			
Toxaphene	20.00	19.72	Passed
Parathion	2.00	1.95	
Toxaphene	20.00	19.42	Passed
Parathion	2.00	1.99	
Toxaphene	20.00	20.57	Passed
Parathion	2.00	2.04	
TRITHION			
California Spray-Chemical Corporation (Now: California Chemical Company—Ortho Div.)			
Ortho Trithion 2 Dust			
Trithion (O-O-diethyl S-P-chloro- phenyl thiomethyl phosphorodi- thioate)	2.00	3.46	Excessive Active Ingredient
Stauffer Chemical Company			
Trithion 2 Dust			
Trithion (O-O-diethyl S-P-chloro- phenyl thiomethyl phosphorodi- thioate)	2.00	2.18	Passed
WARFARIN			
American Scientific Laboratories, Inc.			
Banarat Warfarin Bits			
Warfarin	0.025	0.028	Passed
B and L Wholesale Company			
Destructive Rat Food Pellets, Baited with Warfarin			
Warfarin	0.025	0.025	Passed
Black Leaf Products Company			
Black Leaf New Warf Pellets			
Warfarin	0.025	0.035	Passed
California Spray-Chemical Corporation (Now: California Chemical Company—Ortho Div.)			
Ortho Pelleted Rat and Mice Bait			
Warfarin	0.025	0.038	Passed

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
The d-Con Company, Inc.			
d-Con Rat and Mice Killer			
Warfarin	0.025	0.037	Passed
Eagle Chemical Company			
Eagles'—7 Kills Rats and Mice with Warfarin			
Warfarin	0.025	0.032	Passed
Farmacal Industries, Inc.			
Rat and Mouse Killer (contains Warfarin)			
Warfarin	0.025	0.035	Passed
Hopkins Agricultural Chemical Company			
Hopkins Warfarin Redi-Mix Rat and Mouse Killer			
Warfarin	0.025	0.048	Passed
Dr. LeGear, Inc.			
Dr. LeGear's Warfarin Rat and Mouse Bait			
Warfarin	0.025	0.034	Passed
Linen White Products, Inc.			
Pestex (contains Warfarin)			
Warfarin	0.025	0.038	Not registered
The Master Products Company			
Rat Buster Warfarin			
Warfarin	0.025	0.024	Passed
The Pest Control			
Go Rats			
Warfarin	0.025	0.024	Not registered
Rigo Manufacturing Company			
Kill-Ko (Warfarin) Mouse Bait			
Warfarin	0.038	0.064	Passed
Seacaast Laboratories, Inc.			
Twin Light Rat-Bait			
Warfarin	0.025	0.042	Passed

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
The Twin Supply Service, Inc.			
Killer Kakes Rat Poison			
Warfarin	0.025	0.030	Passed
do	0.025	0.030	Passed

ZINEB
California Spray-Chemical Corporation
 (Now: California Chemical Company—Ortho Div.)
Ortho Zineb 6.5 Dust

Zinc ethylene bisdithiocarbamate ..	6.50	4.85	Deficient
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Cape Fear Chemicals, Inc.**Tiger Brand 10% Dithane Dust**

Zinc ethylene bisdithiocarbamate ..	6.50	6.57	Passed
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Farmers Cooperative Exchange, Inc.**FCX 6.5% Zineb Dust**

Zinc ethylene bisdithiocarbamate ..	6.50	6.98	Passed
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MISCELLANEOUS INORGANIC
The Master Exterminators
 (Now: Master Products Co.)
Fireball Rat Paste

Phosphorous	2.00	1.91	Passed
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Miller Chemical and Fertilizer Corp.**Miller Lime Sulfur Solution**

Calcium polysulfide	29.00	31.04	Passed
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Whitmoyer Laboratories, Inc.**Whitmoyer Carbon Bisulfide**

Carbon bisulfide	—	98.65	Misbranded
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MISCELLANEOUS ORGANIC**Allied Chemical and Dye Corp.****Polar Naphthalene Moth Rings**

Naphthalene	100.00	99.43	Passed
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Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
California Spray-Chemical Corporation (Now: California Chemical Company—Ortho Div.)			
Ortho MH-30 Emulsive			
Diethanolamine salt of 1, 2-dihydro- pyridazine-3, 6-dione	58.00	60.59	Passed
Chemagro Corp.			
Dipterex Sugar Bait Fly Killer			
O, O-dimethyl -1- hydroxy 2, 2, 2- trichloroethyl phosphonate	1.00	1.15	Passed
The Dow Chemical Company			
Dow Korlan 12 E (For Fly Control)			
O, O-dimethyl 0-2, 4, 5-trichloro- ethyl phosphorothioate	12.90	16.85	Passed
Industrial Processing Chemicals, Inc.			
IPC Pine Oil Disinfectant			
Pine Oil	30.00	85.70	Passed
B. G. Pratt Company			
Scalecide			
Petroleum Oil	96.00	96.49	Passed
Ralston Purina Company			
Purina Insect Oil			
Pentachlorophenol (Technical)	4.75	4.56	Passed
Purina Maggot Killer			
Decachlorotetracyclodecanone	20.00	22.89	Passed
Rohm and Haas Company			
Lethane 384			
Beta butoxy beta thiocyno diethyl ether	53.00	57.27	Passed

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
United Cooperatives, Inc.			
(Registered by—Farmers Cooperative Exchange Inc.)			
Unico D-D			
Chlorinated C ₈ hydrocarbons	100		
Total chlorine		57.14	Passed
Unico Grain Fumigant			
Ethylene dichloride	70.00	72.00	Passed
Carbon Tetrachloride	30.00	28.00	
U. S. Rubber Company			
Spergon Seed Protectant			
Tetrachloro-para-benzoquinone	98.00	97.93	Passed

